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HIGH TIMES

December 479

TOP 10

STRAINS
OF 2015

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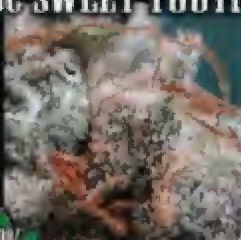
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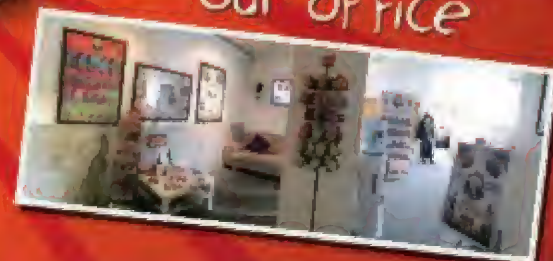
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"It's the art of collaboration, we try to partner up with the very best growers, the best concentrate producers and, of course, access the very best genetics."

—Dream Dispensaries, page 65

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The High Times Medical Cannabis Cup returned to the Auto City Speedway in Clio, MI, for a celebration of Great Lakes ganja. As always, the combination of activism and high spirits was a potent mix, generating even more momentum for legalization.
By Dan Skye

58 Hippie Chicks

Rock'n'roll photographer Jay Blakesberg turns his eye on a tribe of concert-going and loving women—capturing their movement, spirit and essence in his latest book, *Hippie Chick*. *By Jen Bernstein*

65 Dream Dispensaries

AHHS and Greenwolf LA are two hugely popular medical marijuana dispensaries in Los Angeles. One is relatively new; the other is the oldest dispensary south of San Francisco. So how do they account for their success? *By Dan Skye*

75 Top 10 Strains of 2015

We unveil our choices for the best pot varieties of the year, including Cannabis Cup winners and other superstar strains. *By Danny Danko*

89 The Self-Loathing Stoner

Has some of the government's propaganda seeped through and made you hate your pot use?
By Rick Cusick

97 Jorge on Harvesting

The renowned cultivation expert reveals the proper way to harvest marijuana in order to achieve peak potency, aroma and flavor. *By Jorge Cervantes*

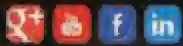
108 The High Times Interview: Bruce Campbell

Cult-movie hero Bruce Campbell reprises the role that made him a star in the new series *Ash vs. Evil Dead*. We sat down with Mr. Boomstick himself to discuss all things gory, green and groovy. *By Bobby Black*

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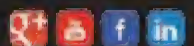
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Fiona does her thing at CHAMPS.

► Glass Artist of the Month

Fiona Anuweh started blowing glass in 2011 with the gentle instruction of the star glass artist Turtle, now her husband. Prior to meeting him, she says, “I had no idea before we met that there was any such thing as a glass blowing industry.”

It was an odd romance. Their first date took place at the Eugene (Oregon) Glass School Flame Off in 2010. “I was hooked on this man and the fire immediately,” she says.

Fiona says she never felt like his apprentice. “Turtle has always made himself available to answer my questions and teach me how to achieve the effects I am after,” she explains.

She describes working with the glass and the flame as a “meditative practice” and looks forward to a lifetime of transforming her inspiration into glass art. (Visit Instagram @fionaphoenixfire to see what Fiona’s currently up to.)

Fiona says, “I believe in the transformational power of smoking rituals, and I see people, every day, who receive myriad benefits from their personal ceremonies. I hope my work reminds people to come to their smoking session with clear purpose, and to use the fire, smoke and plant medicines to lift their prayers.” [Check out Fiona’s work online.](#)



► Best Buds Of 2015

As new genetics emerge, growers are clamoring to plant these fresh, new strains in their gardens. Check out our video homage online to the bodacious buds profiled in this issue!

► The Hemp Files

Even though industrial hemp on the federal level is currently just as illegal as marijuana, that hasn’t prevented activists and farmers from pushing ahead. Editor-in-chief Dan Skye dips into his massive archives to provide a gallery of gorgeous hemp fields—legal and illegal.



► Scary Pot Stories

Stoners love Halloween! You get to dress up in costumes and satisfy your munchie cravings to the max! Halloween also makes us focus on scary stuff, too. Everybody’s got a hair-raising tale to tell. Check out our anthology of horrifying, true-life stoner tales.

► Fix Your Life Now!

Tired of doing laundry? Sick of losing your lighter? Learn our latest tips and tricks for weed smokers in “Life Hacks for Stoners.”

POT POLL

The Beatles or The Stones?

Many music experts believe that whether you prefer the music of The Beatles or The Rolling Stones defines your taste in music, your lifestyle and your overall perspective on life itself! So which is it, “Sympathy for the Devil” or “Let It Be?” Of nearly 3,000 respondents, almost two-thirds said they favor The Fab Four—which is *really* saying something, because The Beatles broke up over 45 years ago!

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August 2015 Miss HT Julie Etzel spins a prize wheel in Michigan.

Who Will Win the Strain Games?

To such an extent does nature delight and abound in variety that among her trees there is not one plant to be found which is exactly like another; and not only among the plants, but among the boughs, the leaves and the fruits, you will not find one which is exactly similar to another.

—Leonardo da Vinci

I've had the distinct pleasure and privilege of writing up our Top 10 Strains of the Year for more than a decade. People often wonder how we decide which strains to appoint to this illustrious list. The first and foremost answer is testing, testing, testing.

The finest perk of this Kush-y gig is that we get to travel the world in search of the best cannabis varieties on the planet: from our many Cannabis Cups to hydroponic-industry trade shows, to those small, tucked-away pot farms where the art of marijuana cultivation—and the strains themselves—are passed down from generation to generation.

We also keep our ear to the ground. Lately we've been hearing a lot about a whole new generation of strains to rival the Kushes and Diesels that have long dominated the scene. Girl Scout Cookies, Gorilla Glue #4 and Tangie hybrids are leading the way, and showing that the evolution of the "fire" strains marches on.

Also in this issue, *HT* editor-in-chief Dan Skye reports from Los Angeles on the pioneering entrepreneurs running two Cannabis Cup-winning dispensaries, AHHS (Alternative Herbal Health Services) and Greenwolf LA. Plus, we've included comprehensive coverage from our 2015 Michigan Medical Cannabis Cup, including the winning pot varieties, hash extracts and growers.

And, of course, you're going to want to turn the page to our first-ever *High Times* scratch and sniff centerfold! For years, readers have been inquiring about this sensory possibility.

Eureka! We've done it! Get a whiff of Orange Cookies!

Danny Danko
Senior Cultivation Editor

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Mystical Women Growers?

First of all, thank you so much for featuring an article about women who grow ("Grower Girls," June '15). I was so excited to see other women growing their own herb for either personal consumption or business. It really convinced me to start growing my own. It was so refreshing to see that, yes, women can be savvy business partners, excellent agriculturalists and, at heart, good old-fashioned stoners.

The only thing I found problematic with the article was the emphasis on how "women have a special touch with the plant, more of a nurturing effect than men do." I believe that both men and women can have an emotional or spiritual attachment to what they are growing, simply because of the healing aspects of the plant. I don't think women have any more of a "special touch" than men do. We women aren't mystical or magical—but perhaps we have a touch more patience than the average man.

I enjoyed learning that fully half of the staff of *High Times* are women. (Just please make sure there isn't a sneaky pay gap in salary.) I look forward to more articles detailing the growing/smoking experience from a female perspective.

Elaine

Look for a feature on the all-women OM Grown Collective in our January '16 issue.

The Obama Cover

Out of fear that I may get busted for expressing my opinion, I shredded the first Obama cover (August '15). Then I decided that after almost 70 years of successful living, if I can't say what I think now, then when? Legalize now and do it nationwide, in a way that is fair to everyone. We can boost the economy. We can help to heal our beautiful planet Earth. Let us, as individuals, have the right and the means to help and heal ourselves. Please make it happen soon! I've heard law-enforcement officials here say they're going to bust as many people as possible before the laws change. This is not just or fair or compassionate. Let's move forward to create a world where we can all live our lives with real liberty and find true happiness. Again, please make it happen soon.

*Penny Lane
New Jersey*



I was so excited to see other women growing their own herb for either personal consumption or business. It really convinced me to start growing my own.

Goin' to the Dogs

First off, I would like to thank you for being probably the most honest and informative publication ever produced. I just wanted to share a personal experience. Almost five years ago, I adopted a 4-month-old puppy from the local pound. The day after adopting K, I took her to the vet for shots and to have her checked out. She was diagnosed with three different kinds of worms, kennel cough, distemper, extreme malnutrition and a few other things I can't remember the name of. The vet told me that she'd probably only live for three more months.

Due to all of these problems, K had developed a rather serious twitch—her entire body would jolt about every three seconds. To counter this, the vet prescribed Valium. I gave it to her one time and she slept 18 hours straight, still twitching. Then she woke up and defecated without getting up. I decided not to give her Valium after that experience.

About a month later, I harvested a crop and noticed K chewing on a discarded stalk. I kept an eye on her and, within an hour, her twitch had become almost unnoticeable. With a healthy diet,

regular vet visits, good homegrown medicine and love, K has overcome *all* of her ailments. Her twitch is now a mild movement instead of a violent jolt. It's been four years now. I never asked my vet if I should switch K from a Valium prescription (since it didn't work anyway) to medical cannabis, but maybe I should!

Thanks once again, and keep up the good work!

*TPD & K
California*

Black-Market Patriots

I'm writing because every time I read about the black market, there's always mention of criminals. Now I know gangs and whatnot sell pot, but what about all of the people like me who break no laws except pot and tax laws? I don't have tattoos or a criminal record, but I've been selling pot since I was 16 years old. I started in Wisconsin, moved to Arizona and then finally Nevada. I don't speed or

drink and drive. I stop for pedestrians. I try to live a good life, but no one talks about the normal people who grow and sell for a living. It's all negative. No one points out that there are good, caring people who believe that an unjust law is not a law. The black market may have gangbangers and drug dealers, but it also has patriots and good citizens.

Darcy

More on Fracking

I'm a scientist, not a pot-smoking hippie, and I fail to see why the marijuana industry is brought into the issue of fracking. Fracking is a grave danger to public health now and for future generations. The same danger is threatening many communities in Europe as well. I have never seen a plausible explanation (let alone any fact-based guarantee) for how the "bad" toxic chemicals would be trapped "deep underground where they can do no harm," while the "good" oil and gas are brought to the surface. This is Disney World stuff, not science.

*Prof. Dr. Marc David
University of Antwerp
Belgium*



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HOOPER HEAVEN Spanning the course of his 35-year career, rock 'n' roll photographer Jay Blakesberg has documented some of America's most spirited earth mothers, fire-twirlers, hula hoopers and female festival revelers. His new book *Hippie Chick* (p. 58) celebrates this amazing tribe of counterculture women.





**Contact
High**

TOP 10 STRAINS OF 2015 In this stunning greenhouse full of their award-winning Zkittlez strain, 3rd Gen Family utilizes light deprivation technology to harvest year-round. Check out our list of our favorite marijuana varieties of the year on page 75. *Photo by Tc*





Contact High

MICHIGAN'S BEST BUDS Feast your eyes upon some of the finest flowers that the Great Lake State has to offer. These super strains were among the winners at the 2015 High Times Michigan Medical Cannabis Cup. More coverage begins on page 47. Photos by Lochfoot

DREAMY JONES

(Bud White at Interlochen Alternative Health)

STRAWBERRY BANANA
(Mass Genetics)



TROPICANA
(Cannabiotix)



CROWN OG

(A Detroit Alternative and Moxie 710)

SUNSHINE #4

(Bhodi Seeds from The Green)



SAVANT'S GRAIL
(710 Savant)



ZKITTLEZ

(3rd Gen Family with Terphogz with The Union)



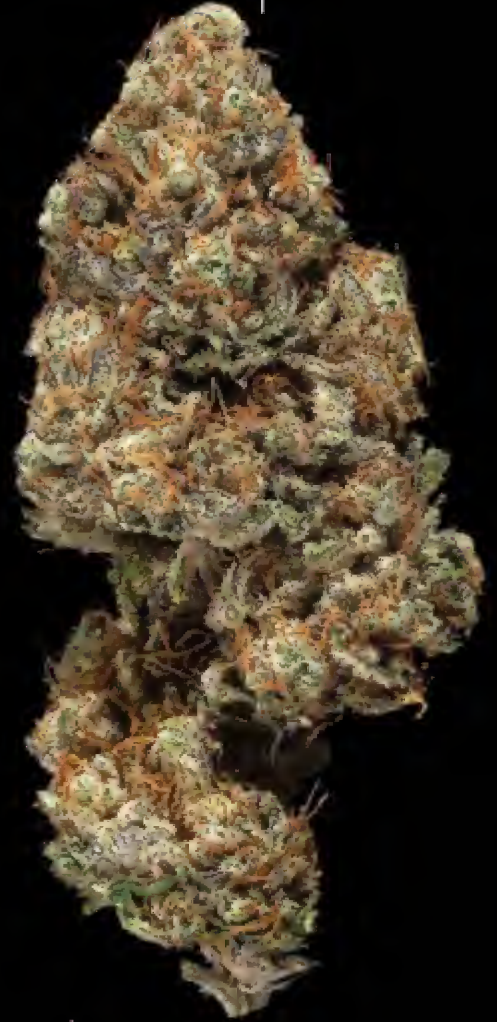
STRAWBERRY BANANA

(Greenwolf Oregon with G.C. Rebellion Farms)



DEATHWALKER OG

(Radicl Genetics in collaboration with Lenz and Valerio)



CBDEE'S #1B

(Pure West Compassion Club with LightSky Farms)



SUPER SONIC CBD

(Radicl Genetics in collaboration with Valerio)



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(Mota Rebel Genetics)





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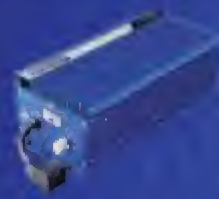
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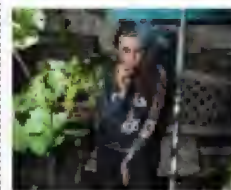
Kristen Stewart is a Stoner!



Entertainment

Laura Jane Grace

Against Mel's frontwoman leads the way. p.34



Food

A Creamy Classic

An always delicious stoner treat for the holidays. p.40



Pot & the New Prez

How will America's 45th president handle marijuana law reform? Check out the views of the current crop of candidates. *By Mark Miller*

DEMOCRATS

Jim Webb, former US senator (VA)

Suggests illegal substances should be regulated like tobacco. Webb fully supports decriminalization: Speaking at a sheriffs' conference in June, he prioritized treatment over incarceration. In 2009, his drug-law reform commission was set to recommend pot legalization, until his fellow senators killed it.

Bernie Sanders, US senator (VT)

On Reddit in May, Sanders endorsed decrim and medical pot, though he remains frustratingly hesitant to go all-in for legalization. While Sanders was mayor of Burlington, his police force minimized pot arrests.

Lincoln Chafee, former governor (RI)

Signed the 2012 legislation that decriminalized weed in Rhode Island, transforming a misdemeanor with potential jail time into a \$150 fine. Chafee says that his position on legalizing pot will "evolve during the campaign." He's open to using tax revenue from legal recreational sales to repair the nation's decaying infrastructure, once quipping: "Pot for potholes."

Martin O'Malley, former governor (MD)

Signed bills in 2014 to decriminalize weed and legalize medical marijuana in his state—after initially opposing medical pot, calling its use "drug addiction." It was a significant turnaround by a politician who has long supported the War on Drugs—and who declared, earlier that same year, that he was "not much in favor" of marijuana law reform.



Hillary Clinton, former US senator (NY) and secretary of state

Subscribes to the "gateway" theory that pot use leads to harder-drug addiction. Clinton insists on more research before she'll fully back medical marijuana—but she also believes that the states serve as "laboratories of democracy," which means she'll observe the situation in legal-pot states before crafting her drug policy.

REPUBLICANS

Rand Paul, US senator (KY)

Ardently supports cannabis law reform in DC. Paul fully endorses the right of states to legalize recreational and commercial use (for both marijuana and hemp). In June, he hosted an unprecedented private briefing for campaign donors at a Colorado cannabis business summit; in July, he co-sponsored a Senate bill to improve access to banking services by legal marijuana businesses.

Rick Perry, former governor (TX)

Says he's personally against the use of pot, but has publicly backed decrim on multiple occasions. Perry has also been quoted as saying: "You don't want to ruin a kid's life for having a joint."

Ted Cruz, US senator (TX)

Publicly reversed his anti-pot position last February at the influential Conservative Political Action Conference (CPAC). Cruz now supports the decision by voters in Colorado and Washington State to legalize recreational use, despite his own personal disapproval of pot and his previous criticism of the Obama administration for not cracking down on commercial weed sales.

Carly Fiorina, former CEO, Hewlett-Packard

Stated in May that she would not enforce the federal ban on marijuana in states with legal herb, despite her own disagreement with pot use. (Fiorina turned down an opportunity to use medical cannabis when battling breast cancer.)

Bobby Jindal, governor (LA)

Signed two cannabis-related bills in June, one establishing a regulatory framework for medical marijuana and the other softening his state's harsh pot laws. However, he says that legalizing recreational weed would be "a mistake."

George Pataki, former governor (NY)

Although he opposed medical cannabis as governor and continues to oppose legalization, Pataki has said that, as president, he would be "strongly inclined" to change federal law to ensure the protection of states that have legalized either medical or recreational use.

Dr. Ben Carson, author/columnist

A groundbreaking Johns Hopkins neurosurgeon (now retired), Carson supports medical cannabis, though in limited application. Even so, he completely opposes recreational use, regarding it as a "hedonistic activity" and a "gateway drug."

« **Lindsay Graham, US senator (SC)**

Insists that cannabis law reform is “pretty far down my list of priorities.” Graham backed his state’s legalization of CBD oil, but voted against a 2015 Senate bill to increase military veterans’ access to medical cannabis. He also opposes the Justice Department’s decision not to prosecute state-legal pot providers.

Mike Huckabee, former governor (AR)

Firmly opposed to legalizing recreational pot, but does regard cannabis recommended by a doctor as a “different discussion.” Huckabee is also fond of citing biased and discredited anti-pot studies.

Marco Rubio, US senator (FL)

Supports the legalization of non-psychoactive CBD, but opposed the 2014 measure to legalize medical marijuana in his home state, which was narrowly defeated. Rubio also rejects any legalization of adult recreational use.

Scott Walker, governor (WI)

Opines that states should have the right to decide on legalization, but won’t support it in Wisconsin. Walker did sign a bill allowing the medicinal use of CBD in 2014, but he also makes frequent (and idiotic) statements concerning the alleged dangers of pot.

Joe Biden, US Vice President

Good thing the Obama administration hasn’t considered the anti-pot views of Biden, who would be a step backwards from his boss. Biden endorses the “gateway” theory and publicly opposes legalization. As senator, he voted for additional funds to fight the Drug War. However, perhaps sensing the winds of cannabis change, while in Colorado in July, Biden didn’t object to taking a pic with a man wearing a High Times shirt!

Jeb Bush, former governor (FL)

Opposes *both* medical and recreational use, but told his CPAC audience that states should have the right to legalize. Even so, in 2014, Bush advised Florida voters to defeat the state’s proposed medical marijuana measure.

Donald Trump, businessman

Advocated the legalization of *all* drugs in 1990, but has been singing a different tune now that he’s running for president. In February, Trump told CPAC that he was against legalizing marijuana—“I think it’s bad, and I feel strongly about that”—although he continues to support medical pot, and also seems to grudgingly accept the right of states to legalize.

Rick Santorum, former US senator (PA)

Utterly opposed to legalization. Santorum supports federal prohibition over state law and seeks to maintain the War on Drugs with increased spending on enforcement and harsher penalties for offenders.

Chris Christie, governor (NJ)

Has actually pledged to undo all of the Obama administration’s (fairly mild) cannabis-law reforms. As New Jersey governor, Christie deliberately obstructed the implementation of a voter-approved medical marijuana program in the state.

John Kasich, governor (OH)

Equates pot with heroin and calls it “a scourge.” “Totally opposed” to legalizing recreational use, but says he “probably would not” interfere with legal states if he became president. We have our doubts; Kasich pledges to “stomp drugs out of our country”

GREEN PARTY

Jill Stein, physician

No surprises here: The good doctor supports full legalization. ✨

As we go to press, Biden is weighing a Presidential run and Rick Perry is considering withdrawing.

HIGH FIVE

Cool Cannabis Colleges

If you’re looking for a *higher* education, make sure you choose the right school!



University of Michigan

Ann Arbor, MI

The Home of the Hash Bash, the most renowned non-4/20 pot celebration in America. Local laws have been lenient here since 1972 (possession is only a small fine), encouraging a robust cannabis culture. Strong weed is readily available, its variety and abundance enhanced by the state’s medical marijuana scene.



University of Colorado

Boulder, CO

At CU-Boulder—located in one of the pot-friendliest towns in America—pot-related disciplinary cases have dropped drastically since 2012, thanks to the school’s decision to educate first-time offenders rather than hit them with punitive sanctions. Sadly, its epic 4/20 events of the past have been downsized considerably.



Humboldt State University

Arcata, CA

Situated in NorCal’s Emerald Triangle, weed is a part of everyday life, and outdoor bud doesn’t get any better. The school also boasts an institute for interdisciplinary marijuana research and investigative studies. As an added bonus, HSU students can work as bud trimmers during harvest time to earn extra cash.



University of Oregon,

Eugene, OR

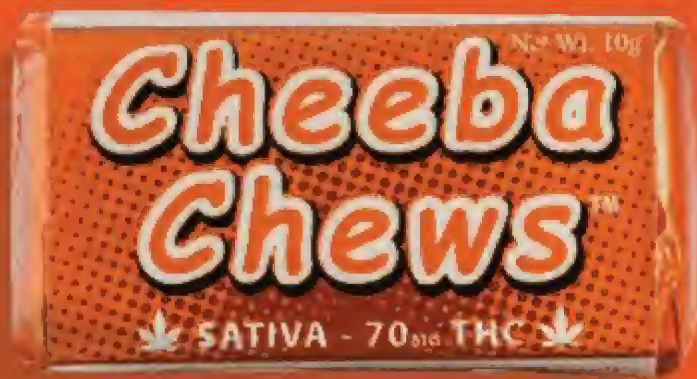
Ranked as one of the best cannabis colleges even before state voters legalized adult recreational use in 2014. Pot flows freely here, among students and athletes alike—in fact, its prevalence may have been partially responsible for UO-Eugene’s loss in the 2015 collegiate-football championship game, after two key players were suspended for weed.



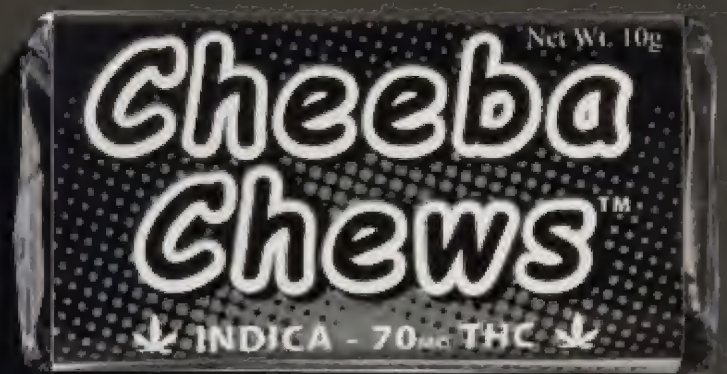
Eckerd College

St. Petersburg, FL

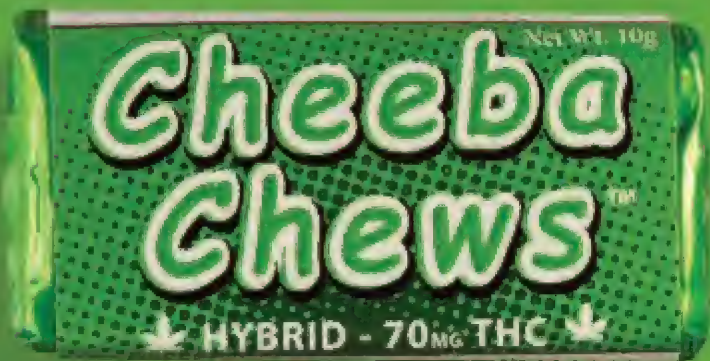
Despite its relative anonymity, Eckerd has consistently earned “high” ratings as a top stoner school from various sources, including the influential *Princeton Review*. Also, Florida has one of the lowest rates of on-campus drug arrests in America—another reason that Eckerd and other state schools routinely make the triple-C list.



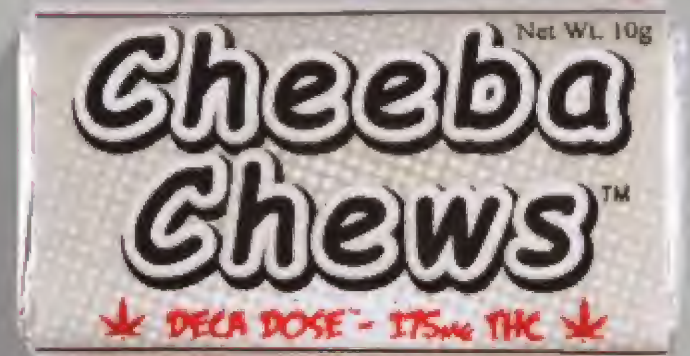
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ANYTIME



STRENGTH



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BALANCE



Game of Drones

A brazen airborne drug delivery sparked a melee at the Mansfield Correctional Institute in Ohio. According to reports, a drone flew over the prison's recreation yard in the middle of the afternoon and released a package containing pot (2.3 ounces), tobacco (over 5 ounces) and heroin (6.5 grams). The brawl broke out when an inmate who was not the drone's intended target snatched the bundle. Guards stopped the fight by liberally applying pepper spray to the prisoners in question; officials discovered the drone delivery only upon reviewing surveillance footage after the fracas. The package was eventually discovered hidden in a nearby equipment room.

Drones, which are operated either by on-board GPS software or via remote control by a user on the ground, present a new challenge in the ongoing fight to prevent contraband from being smuggled into prisons.



Bible Studies

While some high-tech smugglers have turned to remote-control drones to deliver contraband to prisoners (see above), Monika Marie Ryans is refreshingly traditional: The 24-year-old South Carolina woman opted for the old joints-hidden-in-a-Bible method during a recent trip to the Union County Detention Center. Unfortunately, a nosy corrections officer ordained that the Bible she asked guards to deliver to an inmate "didn't look or feel right." After X-rays revealed that the book contained "green plant material," the binding was opened, revealing three joints, loose tobacco and a piece of paper on which Monika had inexplicably written her name.

Ryans was found hiding in the prison parking lot, charged with furnishing drugs to prisoners and taken into custody herself.

STUDY: INDIA RECYCLES DRUGS

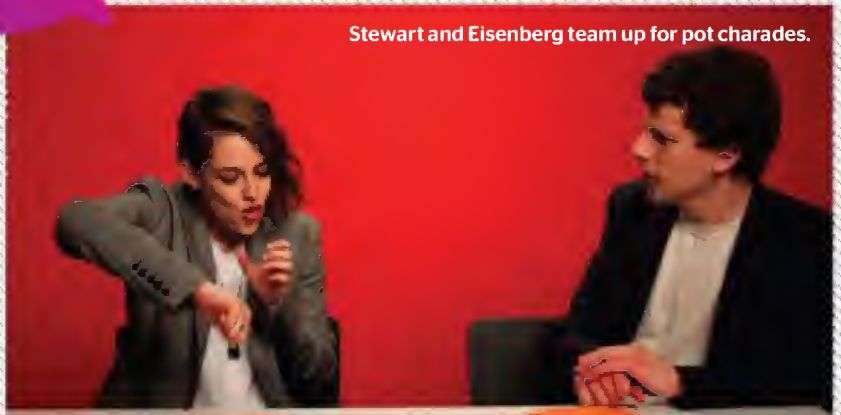


While Indian authorities have done a very good job confiscating drugs over the past decade, they've been far less effective at destroying them. According to the country's first national drug survey, India has only destroyed about 30 percent of the illegal drugs that have been seized in the last 10 years.

India's Supreme Court ordered the study after a trafficker was acquitted in 2012 because the government was unable to produce the opium that was allegedly seized or show any record of it being destroyed.

Authorities seized roughly 5.1 million kilos of marijuana, heroin, opium and various other drugs over a 10-year period but destroyed just 1.6 million kg. The whereabouts of the other 3.5 million kilos of contraband remain a mystery but the drugs likely circulated back to the black market.

Stewart and Eisenberg team up for pot charades.



Kristen Stewart on Weed

In the midst of their publicity push for the stoner flick *American Ultra*, Kristen Stewart and Jesse Eisenberg made a BuzzFeed video titled "Kristen Stewart and Jesse Eisenberg Talk About Weed and Things Get Weird."

Actually, things didn't get that weird. The pair played a faux guessing game in which Stewart, as the cool stoner chick, mimed activities like passing a joint in a drum circle, and Eisenberg, as the ultimate square, did his best to ad lib answers that humorously missed the point. For example, when shown a picture of a joint, Eisenberg identified it as "the leg of a deer, bleached and on its side." Meh.

Even so, Stewart—who has never shied away from her love of cannabis—seemed to be enjoying the setup, correctly identifying a picture of a vaporizer and astutely remarking that simply knowing what one is pretty much confirms your status as a pothead.



Oakland Can't Save Harborside

Oakland and Harborside Health Center both suffered a legal loss after a federal appellate court ruled that the city cannot block an attempt by the federal government to shut down the nation's largest medical marijuana dispensary.

Led by US Attorney and anti-pot crusader Melinda Haag, the Feds have been trying to shutter Harborside since 2012. While the Ninth US Circuit Court of Appeals acknowledged the financial benefits that Oakland receives from the dispensary's operations—to the tune of \$1.4 million in tax revenue—it ruled that "allowing the suit to proceed would impermissibly disrupt the [federal government's] existing forfeiture framework."

Harborside has also challenged Haag's forfeiture suit in court, alleging that it violates certain federal laws as well as the Obama administration's official policy of allowing state-legal medical pot businesses to operate. However, that case has been on hold while the Oakland lawsuit was being settled.

The embattled dispensary also has a property in San Jose.



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Court: Pot Doesn't Stink

What makes an odor offensive? It's the kind of question best contemplated after sharing a joint with some friends. Fortunately, the Oregon State Court of Appeals recently decided that the smell of marijuana is not "inherently offensive." But why was the court asked to rule on such an odd issue?

Back in November 2012, cops obtained a warrant to search Jared William Lang's apartment based on an officer's claim that the aroma of pot therein was "physically offensive." The search yielded evidence of criminal mischief, but Lang filed an appeal, arguing that the pretext for the search wasn't valid.

The appeals court got all philosophical ("Who determines whether a particular odor is offensive?") before ruling in favor of Lang. According to the court: "We are not prepared to declare that the odor of marijuana smoke is equivalent to the odor of garbage. Indeed, some people undoubtedly find the scent pleasing." Indeed, some people do.

Go Canuck Yourself

Canadian Prime Minister Stephen Harper is digging deep into the prohibitionist bag of tricks in an attempt to score political points by attacking marijuana use with outdated propaganda.

Although Canada legalized medical pot in 2001 (five years before Harper took office), the prime minister has been hacking away at the idea of legalizing recreational weed, insisting that pot will remain criminalized as long as he runs the federal government.

At a campaign stop this summer, Harper asserted that when you legalize, "marijuana becomes more readily available to children, more people become addicted to it, and health outcomes become worse." True, Harper has absolutely no evidence to back up these claims, but who cares? Think of the children! They could already be addicted to pot right now!

Liberal Party leader Justin Trudeau has previously stated that he would legalize cannabis if elected prime minister, a stance that Harper calls "misguided and reckless."

HELP, POLICE!
THE COPS STOLE
MY POT!



A Florida man committed the cardinal sin of illegal marijuana growing: He ratted himself out to the police.

Forty-seven-year-old Boyd Wiley Jr. had a crop of 91 plants growing in Putnam County. When he found that his garden had been discovered and seized, he inexplicably marched down to the sheriff's office and informed the cops that they had taken his pot.

As it turns out, the sheriff's office had been investigating the illegal grow op but had no suspects—that is, until Wiley walked in and confessed.

O! Boyd tried to explain that he was growing the pot for medicinal use. Unfortunately, medical marijuana isn't legal in Florida, and Wiley was arrested on the spot.



Up in Smoke

California's outdoor medical marijuana harvest, already threatened by a devastating drought, was further impacted this summer by the 19 simultaneous wildfires that have ravaged the state, with a number of Northern Cali pot farms destroyed in their entirety.

For example, the "Rocky Fire" near Clear Lake destroyed 70,000 acres of land as of late August, decimating marijuana crops. The Harborside Health Center in Oakland receives a quarter of its total medicine from that region. Purchasing manager Timothy Anderson says he "can't remember [a fire] affecting our growers as much as this year."

Wildfires can negatively impact outdoor production even when crops aren't burned. As Anderson explained, "You can't wash a cannabis plant off The sticky resin is going to grab onto any environmental grit or grime from the air"—meaning that smoke damage can also ruin a crop.

Thanks to the decline in production, most industry observers expect to see a significant jump in prices at dispensaries.

Can Nicotine and Pot Improve Memory?

Although the differences between smoking a medically efficacious substance like cannabis and a known carcinogen like nicotine are profound, the substances' combined effect on specific regions of the brain are oddly complementary, according to new findings, producing an extremely unique inverse phenomenon.

In a study published in the October issue of *Behavioural Brain Research*, researchers at the University of Texas's Center for BrainHealth reported that individuals smoking at least 10 cigarettes a day and using pot at least four times a week showed a shrinkage in their brains' hippocampi, which is normally associated with memory impairment. However, these same people, undergoing both neuropsychological testing and magnetic-resonance imaging scans, demonstrated better memory performance despite the reduction in hippocampi size. Those who smoked only weed or cigarettes—or neither—showed no such improvement.

Obviously, further testing is needed to determine the validity of these unusual findings, so don't go reaching for that pack of smokes just yet.



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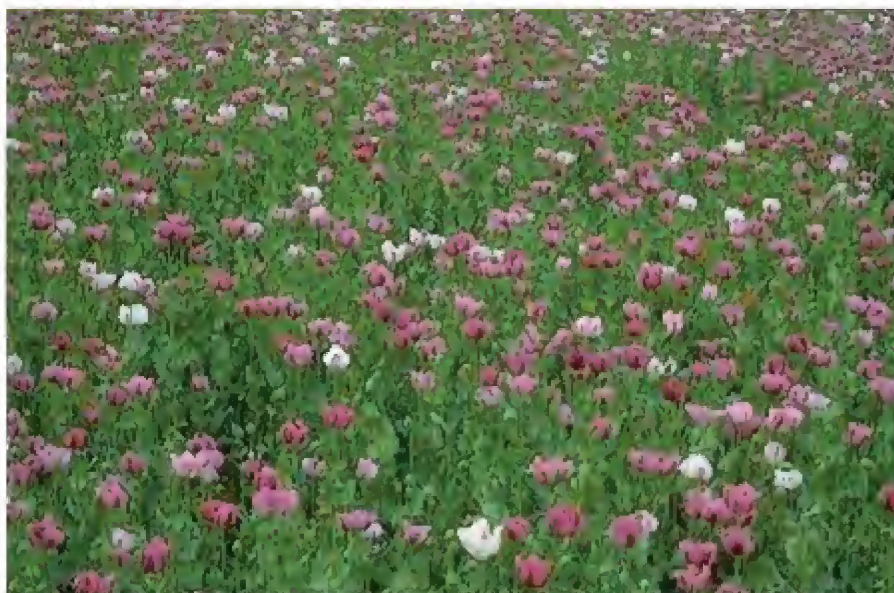
Dispatches from the international drug war. *By Bill Weinberg*

Mexico's El Chapo Escapes—Again!

Well, that didn't take long: A massive man-hunt was announced in Mexico after the country's most notorious drug lord escaped from what has long been considered its highest-security prison. On the night of July 11, Joaquín "El Chapo" Guzmán stepped into a shower and then through a secret tunnel that led out of Altiplano Federal Prison. The nearly mile-long escape route was equipped with lights, ventilation and even a "rail system," according to reports, and emerged in a warehouse on the other end. The Mexican press has now dubbed Guzmán the "Lord of the Tunnels."

Mexican President Enrique Peña Nieto said that he was "deeply troubled" by this "very unfortunate event that has outraged Mexican society." El Chapo's arrest in February 2014 was the crown jewel in a string of takedowns of top Mexican kingpins. He'd escaped from a high-security prison once before, in 2001 (that time in a laundry cart), and then implausibly eluded capture for over a decade despite a supposed national manhunt—leading to a popular theory that the Mexican government and the DEA were protecting him and his Sinaloa Cartel. Now it seems that this ludicrous status quo ante has been restored.

And it gets worse: Mexico's *Blog del Narco* reports that the man believed to be El Chapo's son, Iván Archivaldo, announced the impending



ISIS Burns Opium to Gain Afghan Foothold

Fighters loyal to the self-proclaimed Islamic State (ISIS) have seized substantial territory in Afghanistan, according to an ominous Reuters report on June 29. Witnesses who fled the fighting in Nangarhar province told reporters that hundreds of ISIS fighters in convoys of pickup trucks mounted with machine guns seized several villages held by the Taliban and torched the local opium crops. "They burned poppy fields in Shadal village and banned shops from selling cigarettes," said tribal elder Malek Jan. Taxing opium is a key source of funds for the Taliban, but Reuters notes that the ISIS fighters appear to have other sources of revenue. It's unclear where that money is coming from, but it frees ISIS to stigmatize the Taliban as soft on drugs.

The Taliban have been talking tough against these jihadi upstarts: "They are thieves and thugs We will soon clear those areas and free the villagers," said Taliban spokesman Zabihullah Mujahid. But according to Haji Abdul Jan, a tribal elder, some in the village have welcomed ISIS: "Unlike the Taliban, they don't force villagers to feed and house them. Instead, they have lots of cash in their pockets and spend it on food and luring young villagers to join them."

escape on his Twitter account as far back as May 8, tweeting: "*El general pronto estará de regreso*" (the general will soon return). But apparently no one among the Altiplano prison authorities thought to inspect El Chapo's cell block after this indiscreet tweet.

Details Emerge in Mexican Massacre

Mexico's independent Miguel Agustín Pro Human Rights Center (or Centro Pro) released new evidence on July 2 that high-ranking army officers issued orders to kill prior to a massacre conducted by the Mexican

military of more than 20 supposed narco-gang members in June 2014.

The facts of the bloody incident at Tlatlaya in México state have been disputed for over a year. Alleged documents from the 102nd Infantry Battalion released by Centro Pro read like extermination orders: "Troops must operate at night, in massive form, reducing daytime activity, to kill criminals in hours of darkness," reads one. The orders cast further doubt on the official story: that the alleged gang members died in a shoot-out after firing on soldiers during a warehouse raid.

An investigation by the National Human Rights Commission (CNDH) had already established that as many as 15 of the victims were either unarmed or killed after they surrendered. The army continues to stand by its version of events.

The CNDH report, released last October, also details a military cover-up regarding the slayings. The following month, federal prosecutors charged three soldiers with murder and seven with breach of duty in relation to Tlatlaya. As Centro Pro issued its latest explosive findings, México state authorities

filed charges against more than half-a-dozen police officers, who have been accused of torturing several witnesses to the massacre, all of them women. Three of the seven policemen remain at large as we go to press.

Another Hash Mega-Haul in the Mediterranean

Unprecedentedly huge seizures of hashish continue to make news along the Mediterranean coast. Spain's Guardia Civil on July 1 announced that nearly 16 tons were found on a vessel intercepted off Malaga. The crew of nine—six Syrian and three Indian nationals—were all arrested. The 85-meter vessel, the *Just Reema*, was sailing under a Congolese flag when the Guardia, in a joint operation with French and Italian forces, boarded it.

Searching the vessel at sea, the police found only a cargo of salt. But once the ship was brought into port at Malaga for a more thorough inspection, agents discovered that it had a double bottom for smuggling hashish. Europol estimates the value of the haul to be about €24 million (\$26.5 million). The Organized Crime and Corruption Reporting Project announced in July that in the past two and a half years, European police have seized 22 ships in the Mediterranean carrying up to 30 tons of hashish each. 🌿

For updates on these and other stories, see Bill Weinberg's websites, GlobalGanjaReport.com and WorldWar4Report.com.

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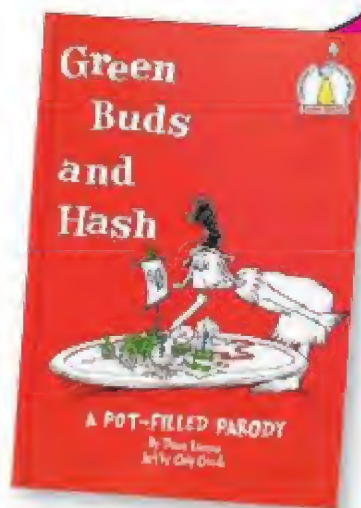
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cannabisbasics.com

Would You, Could You, Try a Toke?

In this pot-filled parody of the Dr. Seuss classic *Green Eggs and Ham*, a quizzical character named Mister Stash pesters the unnamed narrator to sample his green buds and hash. The narrator refuses, insisting: "I do not like green buds and hash. I do not like them, Mister Stash." Delightfully spoofing one of the most popular children's books of all time, *Green Buds and Hash* depicts Mister Stash offering his goods to his unreceptive companion "in a bong," "all day long," "wrapped in paper," "now or later" ... and so on. Of course,



his friend finally relents and discovers, "Hey now, I am feeling good! They worked just like you said you would. I have never felt this fine! Green buds and hash are quite divine!"

Green Buds and Hash is the brainchild of longtime marijuana activist Dana Larsen, and

it's been beautifully illustrated by artist Chip Crumb. Every drawing is a nod in some way to the original material we all know and love so well—a happy childhood memory filtered through a cloud of cannabis smoke. But this amusing little book carries its own potent message, as Mister Stash convinces his behatted buddy that green buds and hash have healing properties. Our narrator gleefully proclaims at the end of the story: "Though I was told they were a sin, green buds and hash are medicine! I'm sorry that I was so hateful—now I know I should be grateful! Thank you, thank you, Mister Stash. Thank you for green buds and hash!" Visit greenbudsandhash.com.



Magic Light Gear

Hand-painted by High Times alumnus Thumpah Lee and artist Angela Hilgers, this bespoke lab coat was created to celebrate the 50th anniversary of the Merry Pranksters' famed Electric Kool-Aid Acid Tests. Thumpah premiered his Technicolor dream coat at the Santa Clara "Fare Thee Well" Grateful Dead shows, then sported it on the Furthur bus, touring the Pacific Northwest with Ken Kesey's son Zane and his bunch of Merry Pranksters to commemorate their golden jubilee. The one-of-a-kind piece is black-light-reactive—and under UV rays, it reveals a secret message along with other trippy details. Thumpah and his fiancée Angela run Germany's ZauberLicht Theater, a multimedia, improvisational theater group that creates performance pieces using puppetry and black light. They'll be taking orders for original psychedelic clothing pieces starting this fall via their Facebook page (facebook.com/ZauberLichtgear).

Laura Jane Grace reflects on her use of the healing herb.



Transformative

Laura Jane Grace is a true trans dope rebel. *By Jonah Bayer*

Punk and pot haven't always gone hand in hand, but Against Me! frontwoman Laura Jane Grace has always followed her own path. "There's a belief that sniffing glue and uppers were always a punk thing, and weed was for hippies," she says. "But I think that's just part of the misconception that if you smoke weed, you're lazy and aren't trying to provoke change."

We're lounging on the grass near Manhattan's West Side Highway after a private smoke session, and Grace is warming to the subject. "One of the

most overlooked things are the politics behind drug culture—especially in places like South America. If you grow weed legally in the United States and don't support that corruption, that's way more political than fucking drinking a beer or sniffing glue."

Admittedly, Grace knows a thing or two about battling misconceptions. She formed Against Me! as a solo act when she was a teenager living as a male, and has been at the helm of the Florida-bred punk act for half her life. However, she surprised both hardcore

AM! fans and the uninitiated when she came out as transgender in 2012 and adopted the name Laura Jane Grace. (Her journey is chronicled in Against Me!'s brilliant 2014 album *Transgender Dysphoria Blues*).

When asked if she sees parallels between the acceptance

of trans culture and legalized weed, Grace nods. "I think they're both a sign of society progressing more liberally as a whole. That's not to say there isn't tons of work that needs to be done to keep pushing that forward—but if you look at where we were with both of these issues 20 years ago, the fact that we're even having these conversations is encouraging."

Grace says that marijuana is a huge help when it comes to dealing with social anxiety. "It slows my brain down to a pace that I can keep up with, and immediately puts me at ease so I can focus and switch to creative mode, which can be hard to do on tour," she says. "It also tends to give me a kick-start motivationally to get up and do whatever I have to do. I'm able to exist a lot more in the moment—instead of continually contextualizing things in my head and being painfully self-aware, I can forget about that and just live."

And since she started her gender transition, Grace has discovered one more reason to smoke pot: "Hormonally, it levels me out. If my levels are fluctuating, I'm not as affected by it or I don't notice."

That's especially important even how much she has on her plate these days. When we spoke, Grace had just approved the final mixes of Against Me!'s new live album, *23 Live Sex Acts*.

"I've always had the ambition to do something great," Grace says as the sun fades behind the New Jersey skyline. "Maybe that sounds clichéd, but wanting to write the best song you can and try to leave a mark—those were the goals I had when I was 13, as much as they are now." ✨

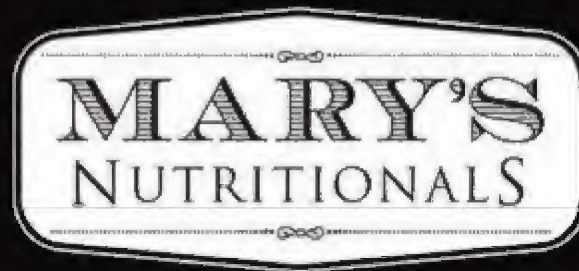


Fan Fare

Grace is currently at work on a memoir that includes her personal and tour journal entries. In the meantime, you can pick up an Against Me! grinder from their merch booth... if they're not already sold out, that is.



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The Wright Stuff

The Las Vegas rapper enjoys *The Growing Process* that his mom seeded. *By Chris Parker*

To hear Dizzy Wright tell it, his mother always knew he'd be a great rapper—or maybe that was just part of the plan. Like the stereotypical showbiz mom, she'd take Wright and his brother around to perform as kids and even ghostwrite their raps. And now that he's broken through with his heady-smooth, old-school-biting second album, *The Growing Process*, she couldn't be more excited.

"My mom is hilarious," Wright says. "She is hands down my number-one fan."

But their relationship has had its ups and downs. "My mom wanted me to be positive, and there were certain things she didn't want me talking about," Wright recalls. "But those things were in my face; that was real life to me. I wanted to be able to express myself a little more than she was letting me. It was making me not want to be positive at all—it was literally doing the opposite for me!" he adds with a laugh. "But then you start growing up and you realize how crazy you sound."

Nowadays, Wright is on the deep tip, following a jazzy groove that recalls '90s acts like A Tribe Called Quest and Digable Planets. That spirit is captured on *The Growing Process* by tracks like the uplifting "Kill 'em With Kindness," the gently swerving "Train Your Mind," and the funky party tune "Good Vibes."

There was a period when Dizzy enjoyed the thrill of writing a booty jam and seeing its impact—until he realized that's what everyone in Vegas was doing, and why no one got out. So he returned to his old style, but kept some of the newfound panache.

"I needed to keep that party side to me," he says. "When I perform, I have a lot



Dizzy gets in the right state of mind.

"Man, I smoked and shit *changed*... I switched my name to Dizzy Wright, got in, started doing shows, got signed and started dropping projects. Since then, I have not stopped once."

of personality—I smile a lot, and I just get it from being in that environment. So I took a lot from it and just had to mash it all together."

Ironically, although Wright's a serious toker who christened his 2012 debut *SmokeOut Conversations*, he was late arriving to the party. In fact, he never even tried marijuana until he was nearly 20, because he knew a bunch of people who smoked weed in high school, and "none of them graduated—literally. Like, school wasn't for *none* of them."

That summer, Wright

was going to be a father. He remembers driving around Vegas in a Cadillac without air conditioning, sweating about the music game, his looming responsibilities and the drama with the mother of his baby's momma, who had naturally interjected herself into things. It got so tense that his girl flipped on him,

and they were at each other's throat for a time.

"It was so crazy, I started smoking blacks—I literally just needed something to palm my nerves," Wright confesses. "The little things in life got me aggressive and frustrated, so I started smoking the blacks, and my boy Moskie told me straight up, 'Bro, those stogies the shit that will kill you.'"

His friend Moskie Moe, the hip-hop artist who doubles as his hype man, told him to smoke weed instead. Wright was hesitant: "I don't want to be faced," he objected. But Moskie let him know that there was such a thing as a high-functioning stoner, and it transformed his life.

"He was like, 'Listen, bro, trust me'—and, man, I smoked and shit *changed*. I told my baby's momma, 'You know what, fuck you—let me get my life together.' Since then, I switched my name [La'Reonte Wright] to Dizzy Wright, got in, started doing shows, got signed and started dropping projects. Since then, I have not stopped once."

In the five years since he started smoking, Wright has released two full-length albums, four EPs and seven mixtapes. Who says that stoners spend their days couch-locked?

"That's why I smoke all the time," Wright says. "I remember my manager trying to figure out if it was a problem. I had to laugh at him. I'm like, 'Nah, man, this is how I entertain thoughts.'" ✨



He Likes It Raw

In July, Wright received the first batch of his namesake strain, Dizzy OG. "It's Crown OG mixed with King Louie, both *indicas* crossbred. I'm hoping for strongness," Wright says. He likes Raw papers: "I literally just learned how to roll a joint this year."



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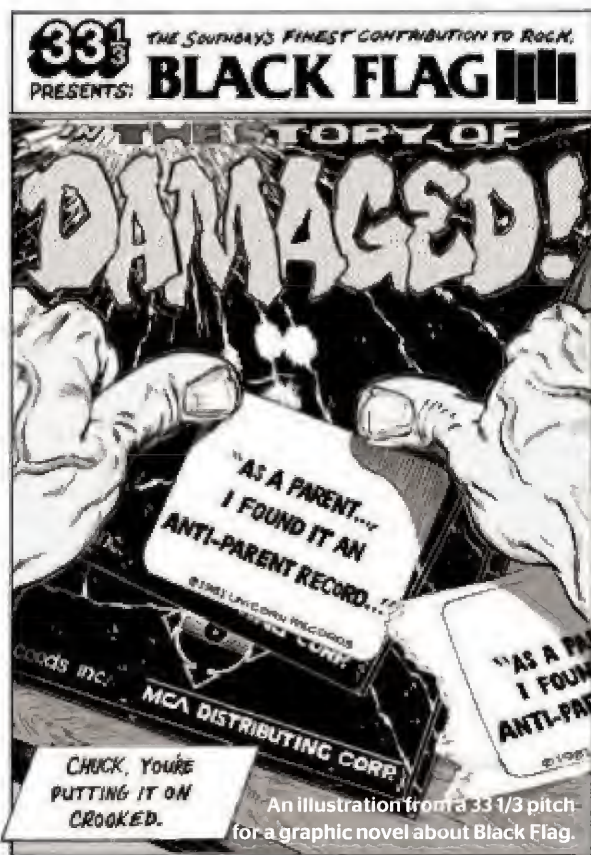
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Scored Type

The definitive primer on music journalism from 33 1/3.

In his introduction to *How to Write About Music*, Marc Woodworth surgically slices apart that oafish cliché about how “writing about music is like dancing about architecture.” He does so not in a mean-spirited way, but in a manner that allows

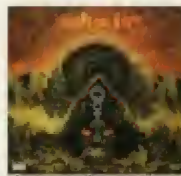


How to Write About Music
Marc Woodworth and Ally-Jane Grossan
(Bloomsbury Academic)

the meaning of the phrase more surface area and possibility. He inverts the idea so that the statement is no longer a dismissive slight, but an aspirational model of music journalism. Woodworth goes on to say, “It’s precisely in that gap between arts that the possibility of making something worthwhile might best be realized.” He teases out the intricacies of the phrase, always expanding and never reducing, so that by the end of his introduction, we are left not with a “silent song,” but rather with a challenge akin to “singing about silence.”

It is a stunning introduction to a stunning collection of work. Co-edited by Woodworth and Ally-Jane Grossan, with a foreword by novelist Rick Moody, *How to Write About Music* is both a practical guide and a wellspring of inspiration by example: from Lou Reed’s celebratory assessment of Kanye West’s *Yeezus*, to Lester Bangs’s legendary excavation of *Astral Weeks*, in which the seminal rock critic examines Van Morrison’s mystical apprehension of the “Word”—astonishing, virtuosic vocal repetitions of sound, phrase and syllable. *Josh Chambers*

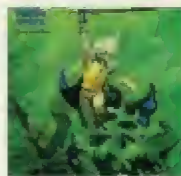
MUSIC RECOMMENDATIONS



High On Fire
Luminiferous
(eOne Music)

As heirs to Motörhead’s hard-living, hard-touring, everything-louder-than-everything-else throne, High On Fire have a lot to live up (down?) to. The infamous power trio has spent nearly 20 years shredding faces and melting brains with relentless riff-storms and furious battery, enhanced by the

unbridled intake of alcohol and THC. Here, freshly booze-free HOF mastermind Matt Pike rails against the shape-shifting reptiles that he believes control the world’s governments, media and financial institutions. The result is possibly the band’s most devastating and satisfying album. *J. Bennett*



Cirith Ungol
Frost and Fire
(Metal Blade)

Back in 1980, Cirith Ungol recorded *Frost and Fire*, a metal album so innovative that only the most advanced fear wizards knew what to make of its bizarre riff spell. That album and its three follow-ups were all the band had in ‘em before splitting up. Now the first three albums are back on vinyl.

This one’s boogie-rock gallop has been proven to turn your stereo into a liquid-flame-powered hot rod, your couch into a rabid howling dog, and your living room into a wrecked neon-city realm lit up by the sound of sinister space keyboards and ruled by urban barbarian hordes. *Adam Ganderson*



Unknown Mortal Orchestra
Multi-Love
(Jagjaguwar)

New Zealand psychedelic-pop outfit Unknown Mortal Orchestra have taken their brand of catchy, fuzzy, folk-derived compositions and combined it with a heavy influence of Prince, synths and memorable melodies. There’s no denying that this is one of the more marketable works from

singer/songwriter/guitarist Ruban Nielson. The electronic additions point to a yearning for growth and risk in Nielson’s creative process, but despite the influx of new sounds, the roots of UMO’s two previous albums shine through this intriguing attempt to cover more ground. *Tyler Curtis*

BOOK RECOMMENDATIONS



Drinking in America: Our Secret History
Susan Cheever
(Twelve)

America lurched and staggered into history, mostly shitfaced. We need to account for our actions, much like a pisshead trying to recall what happened during last night’s drunk: Pilgrims dropped anchor where they did only because they were out of beer; pie-eyed Paul Revere loudly

launched a revolution; JFK’s Secret Service detail got hammered the night before their worst nightmare in Dallas, 1963. Informative, entertaining and scary (Richard Nixon would have a couple drinks and threaten to bomb stuff), this book brings history to life and pours it a tall one. *Mike DiPaola*

GAMES RECOMMENDATIONS

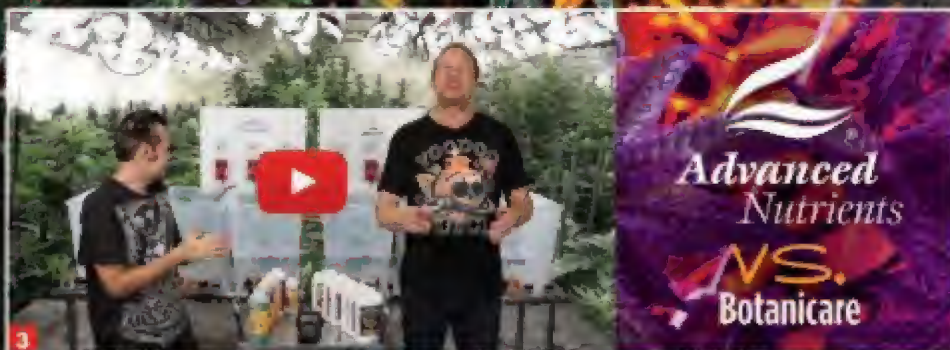


The Witcher 3: Wild Hunt
PS4, Xbox One, PC
(CD Projekt RED)

The most badass protagonist in gaming is back, taking a piss on the notion of the character-creation mode that has become the staple of RPGs. Geralt of Rivia is a monster-hunting supernatural sleuth, fighting the good fight as he shags his way across the continent. Polish folklore and creatures

unheard of in your average Eurocentric fantasy tale make every in-game experience so refreshing that cultural absorption occurs at an encyclopedic rate. With its compelling story and characters, intriguing NPC dialogue, and side quests as good as the main one, *Witcher 3* bangs. *Tyler Merfeld*

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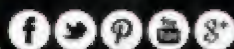
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A deliciously intoxicating treat

MUNCHIES

Egg Nug

A cannabis-infused holiday classic.

After graduating from the Culinary Institute of America, chef Payton Curry opened a string of restaurants and hit it big in 2012 with the Brat Haus, a beer-and-sausage joint in Scottsdale, AZ. Steeped in farm-to-table ideals and a do-it-yourself attitude, Curry researched the health benefits of medical marijuana and decided to offer his culinary expertise to Arizona patients in need of nutritious cannabis-infused edibles, launching *MarijuanaRecipes.com*.

Curry now works with some 40 families as a personal chef, custom edibles-maker and nutritional consultant. “It’s not about getting high all the time,” he points out, describing his work with a young boy with epilepsy and autism who was previously self-injurious, but now plays with Legos. “It’s rewarding to see these children getting healthier.”

But his demanding schedule doesn’t mean he’s all work and no play, as seen in this recipe for an intoxicating beverage that’s “dessert in a glass,” according to Curry. “People who come to my holiday party know what to expect,” he adds. “We’ve got Santa Kush passing out joints!”

The drink’s richness makes it tough to overdo it, but you should know your limits: This is a nog to use responsibly! “I like to use high-CBD strains when combining with alcohol,” Curry notes. “It’s like a hangover cure that balances out the bourbon.” Also, use locally sourced organic eggs, since they’re being consumed raw—and if you have a compromised immune system, use pasteurized ones instead. ✨

EGG NUG

6 egg yolks
3/4 cup Honey Buzz, warmed (recipe follows)
2 cups half-and-half
1 cup Canna Cream (recipe follows)
6 oz. bourbon
1 tsp. freshly grated nutmeg
1 tsp. cinnamon
6 egg whites
1 tbsp. sugar

Throw the yolks into a stand mixer and beat on high for three to five minutes, until they look nice and light. Start slowly pouring in the warmed honey and beat until it’s completely dissolved. Add the half-and-half, cream, bourbon, nutmeg, and cinnamon and stir it up! Remove from mixer and set aside.

Place the egg whites in the bowl of the stand mixer and beat to soft peaks. With the mixer still running, gradually add one tablespoon of sugar and beat until stiff peaks form. Whisk into your yolk mixture and serve.

Honey Buzz

2 cups organic honey
14 g. cannabis (decarboxylated)
1 cup water

Place the cannabis into a Crock-Pot and turn on high. Once the pot is fragrant, pour in the water and bring to a simmer. Next, pour in your honey and cook for three to five hours. Strain the cannabis out and reserve your honey.

Canna Cream

1 qt. cream
1 oz. marijuana trim (or 14 g. kief)
2 cups half-and-half

Put the Crock-Pot on medium, add the ingredients and steep for three hours. Strain the cannabis out and reserve your cream.

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Maple Bacon Bourbon Butter Sauce

Skill level: Easy
Prep time: 10 minutes
Cook time: 15 minutes

Serving size: 2 tablespoons/30 ml
Yield: About 2 cups/480 ml

Ingredients

- 6 tablespoons/90 ml MagicalButter
- 12 ounces/360 ml pure dark amber maple syrup
- 10 strips bacon, sliced crosswise into 1/4 inch wide strips
- 3 ounces/90 ml Maker's Mark bourbon
- 2 tablespoons/30 ml organic cane sugar
- 1 tablespoon/15 ml vanilla paste

How to

1. In a large sauté pan on medium heat, cook the bacon until halfway done, about 5 minutes.
2. Drain the bacon on paper towels to remove excess grease, discard the fat from the pan, and return the meat to heat.
3. Add butter, and cook until the bacon is crispy; then add sugar and vanilla paste, and cook for 1-2 minutes.
4. Add 2 ounces/60 ml of bourbon, and cook for 1-2 minutes.
5. Add maple syrup, and cook for an additional 5 minutes.
6. Stir in the remainder of the bourbon, remove from heat, and decant into a syrup pitcher or serving dish.

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Alaska	Togiak	White Widow	500
Arizona	Phoenix	Banana Kush	330
California	Los Angeles San Diego	Tahoe OG Headband	300 320
Colorado	Denver Colorado Springs	Ghost Train Haze #1 Death Star	320 280
Connecticut	Hartford	Diesel	300
Delaware	Newark	Grand Daddy Purps	360
Florida	Orlando	Skywalker OG	400
Georgia	Atlanta	OG Kush	300
Hawaii	Honolulu	White Widow	330
Illinois	Chicago	Chemdog	350
Indiana	Lafayette	Blue Dream	480
Iowa	Des Moines	Diesel	280
Kentucky	Louisville	Trainwreck	375
Louisiana	New Orleans	Kosher Kush	400
Maine	Portland	Snow Cap	300
Maryland	Annapolis	Lowryder	380
Massachusetts	Provincetown	Jillybean	360
Michigan	Ann Arbor	Blue Dream	300
Minnesota	St. Paul	Pineapple Chunk	380
Missouri	St. Louis	Sensi Star	360
Montana	Bozeman	Blue Dream	300
New Jersey	Hoboken	Girl Scout Cookies	400
New York	Brooklyn	Strawberry Cough	420
North Carolina	Asheville	Yoda OG	300
Ohio	Columbus	Blueberry	330
Oregon	Salem	Jack Herer	100
Texas	Dallas	Fire OG	480
Utah	Salt Lake City	Cheese	300
Vermont	Burlington	Sour Diesel	350
Virginia	Richmond	White Widow	300
Washington	Bellingham	Chem '91	180

MARKET ANALYSIS

Prices by the ounce

All indices, with the exception of the Schwag Index, closed the month above their year-to-date average. The Kind Index experienced the biggest gain, finishing December \$19 above its YTD average. Kush finished as the most submitted strain for every month of 2014.

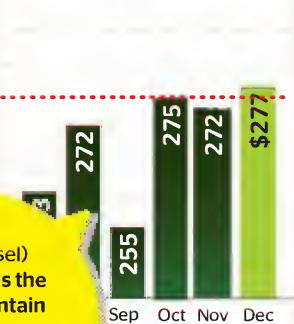
US Price Index
YTD Average: \$301



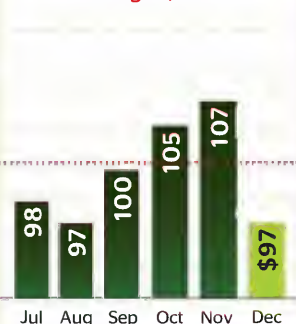
Kind Index
YTD Average: \$373



Mids Index
YTD Average: \$275



Schwag Index
YTD Average: \$101



(Sour Diesel)
"They call us the Green Mountain State for a reason."
-Burlington, VT

INTERNATIONAL

Canada	Cape Breton Island Winnipeg	Green Crack Bubba Kush	C\$240 180
Guatemala	Guatemala City	Girl Scout Cookies	480

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(Snow Cap)
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-Portland, ME

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Hot Products

What's new for cannabis cultivators and connoisseurs.

1 Vapor Flight

\$199

flytlab.com

If you're tired of small plastic vapes and prefer to hold something heavier, try out the H2-FLO by Flytlab for a breath of fresh air. What it lacks in discretion, it makes up for in durability and ease of use. The robust vaporizer oven guarantees fresh, consistent hits, but you also have the option of using a bubbler attachment.

2 Doob Tubes

Prices vary

doobtubin.com

Traveling with pre-rolled joints just got a whole lot easier with the invention of Doob Tubes! These airtight, waterproof and odor-free containers are made from polycarbonate plastic to keep your spliffs and blunts dry and safe from scheming thieves and law enforcement. Doob Tubes are manufactured in the USA, and you can even have them custom-printed with a favorite phrase or company logo.

3 Power Trim

\$14.95

smartgardenproducts.com

Trimming is tedious and repetitive work that only gets worse when you're not using the right scissors for the job. The new SmartBlade Bonsai Trimmers feature durable, self-cleaning blades that prevent a sticky buildup from forming and slowing down the process, while the comfortable grip ensures that long hours of trimming won't bum you out.

4 Pest Stopper

Prices vary

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Growers are always on the hunt for safe ways to protect their plants from pests like spider mites, whiteflies and thrips. The new OMRI-listed Neem-Pro is an organic, cold-pressed neem oil featuring 3,750 ppm of the active ingredient Azadirachtin. Spray it on the tops and bottoms of leaves, rinse and you'll be bug-free. Use code "htglobalgardenco" for 15% off and free shipping.

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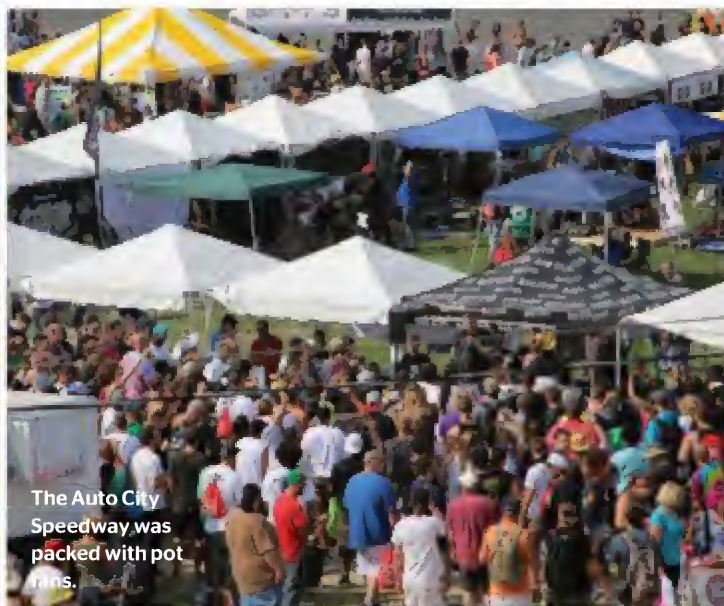
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Some Michiganders were equipped with all-day joints.



The Auto City Speedway was packed with pot fans.



The Dukes of Fire provided a heavenly dab experience.

Michigan On the Move

The Cannabis Cup returned to the Great Lakes State for a third time. Like last year, rain dampened the awards ceremony—but not the high spirits of Michiganders!

Story & Photos by Dan Skye

My roots go deep in Michigan. My dad was born in Detroit, and he met my mom at Ann Arbor High School. Her grandfather was a professor at U of M, and I attended grad school there. I myself was born in Flint, and though I've lived on the East Coast for a few years now, Michigan still moves me.

Growing up, we were often told that Michigan was America's best state. People worked hard. We made cars for America. We had the best sports teams. And we had the gorgeous Great Lakes surrounding us. I had no argument with our primacy.

For decades, Michigan's economy depended on the auto industry. But in the 1970s and '80s, the industry downsized and shifted to other parts of the country. In 1975, there were approximately 100,000 auto-industry jobs in Wayne County, where Detroit is located; these days, that number has dwindled to approximately 25,000, with only 10,000 jobs left in Detroit itself.

Ever since, Michigan has sought ways to diversify its economy. So why not cannabis

Moxie Seeds hostesses were highly helpful.



agriculture and the commerce it generates?

Michigan legalized medical marijuana in 2008, with a whopping 63 percent of voters in support. For a short time, the dispensary scene flourished, but in 2011 the state appeals court ruled that the sale of medical marijuana isn't protected under the law. The Michigan Supreme Court has issued nine rulings—often in frustration—most recently stating in July that “the many inconsistencies in the law have caused confusion for medical marijuana caregivers and patients, law enforcement, attorneys and judges and have consumed valuable public and private resources to interpret and apply it.”

In the past four years, only a few dispensaries, located in sympathetic municipalities, have remained open. But state activists have never wavered in their pursuit of the real goal: total legalization. MI Legalize is promoting an initiative that would legalize the possession of up to 2.5 ounces by adults, and allow home grows of

The Green Room showcased its green jewels.





4 On the Michigan Cup's first day, over 6,000 people came flocking to the medication area.

- 1) Premium Collective of Detroit shared medicated "Kool-Aid."
- 2) Fire-eaters proved there are worse things than cottonmouth.
- 3) Grand Daddy Genetics founder Ken Estes made the scene.
- 4) Herban Farmer's merchandise was dab-ilicious!
- 5) I-94 Collection offered super Great Lakes ganja products.

12 mature plants and an unlimited number of immature ones.

Another initiative, backed by the Michigan Cannabis Coalition, put no real limits on possession, but allows municipalities to ban home grows. Both initiatives need over 250,000 signatures to qualify for the ballot—and polls indicate that voter support for legalization exceeds 50 percent. So when the Auto City Speedway in Clio opened its gates for the High Times Medical Cannabis Cup, the ultimate prize was on everyone's mind: The weekend's seminars were dominated by the state's top marijuana law reform activists, and signature gatherers were out in force.

What makes the Cannabis Cup special is the fact that attendees, at least for a short while, can experience the flavor of freedom. As support for legalization grows, it's galling that High Times continues to



5

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HT cultivation editor Danny Danko (left) hosted a star panel of growers.



Robert "Black Tuna" Platshorn hawked his books.



The Green Bean painted themselves in pot themes.

encounter resistance to our Cannabis Cup events in the US. The thought of Cup-goers openly ingesting cannabis seems to frighten many politicians. Yet Oktoberfests are ubiquitous, and wine-country tours—with a whole lot of “tasting” going on—are vigorously promoted by the alcohol industry. To be blunt, these contradictions drive everyone in the cannabis community fucking crazy! Fortunately, the Cannabis Cup gives us a glimmer of a future free of persecution.

On the Michigan Cup's first day, over 6,000 people came flocking to the medication area—the converted Speedway racetrack—where 200-plus vendors awaited with booths offering dabs, buds, glassware, stoner apparel, dispensary info, grow gear and every item of canna-consumerism that our rising industry has to offer. An all-day music stage rocked the crowd, and circus performers wowed weed smokers with acts of derring-do, including fire-eating and aerial-silk artistry. At the Saturday night concert, Iration's warm reggae vibes ended the Cup's first day on an extra-high note.

Sunday dawned with the threat of thunderstorms in the afternoon. The day grew grayer by the hour, but only a few distant rumbles of thunder were heard. Sadly, around 4:20, the skies did open up, and rain soaked the Cup for a steady couple of hours.

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180-189°C/354-373°F	Green
190-199°C/374-390°F	Purple
200-209°C/392-406°F	Yellow
> 210°C/402°F	Red

6 temperature levels / 2 clics

Herbstick











Fill the chamber for up to 0.5g (0.02oz) of herb. Simply heat the chamber and the herb will vaporize into the air.

Start	Time	Temp (Start)
2x =	Blue	170°C (334°F)
2x =	Green	180°C (354°F)
2x =	Purple	190°C (374°F)
2x =	Yellow	200°C (392°F)
2x =	Red	210°C (402°F)

6 temperature settings
Alloy, surface: 11.5x1.5"

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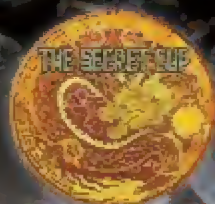
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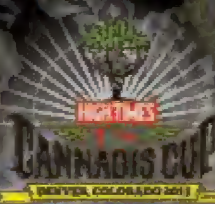
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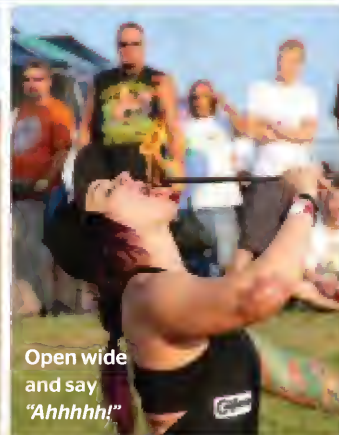
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Iration smoked the crowd out at the Saturday night concert.



The Martinez Studio Art Club sculpted a huge sand bong.



Open wide and say "Ahhhhh!"

At last year's Michigan Cup, a wicked storm forced the cancellation of the awards ceremony entirely, but High Times was determined that this year, no matter what the weather, the show must go on!

The simple truth is that Michigan's enthusiasm for the Cup—and its gratitude at seeing the event in the state—has warmed our hearts considerably. The community, the media, and even the local politicians have welcomed the Cannabis Cup and recognize what it represents: new commerce, new jobs and, most of all, the will of the people in action. The High Times crew wanted to honor this community in real time. So, in the midst of a summer shower, the Cannabis Cups were announced over the stadium loudspeakers and distributed to the winners.

The prize winners in the various categories for flowers were dominated by Michigan growers, although Zkittles of 3rd Gen Family (from Mendocino County, CA) did grab the Cup for Best *Indica*. But West Coast extractors dominated the concentrate categories, with Greenwolf Oregon and Moxie Seeds picking up multiple awards and also sharing the win for Best Hybrid Concentrate and the third-place medal for Best *Sativa* Concentrate.

This year's Cup was nearly three times the size of our first event at the Speedway. With more space promised for next year and, no doubt, more support for cannabis statewide, as well as legalization initiatives slated for the November ballot, the 2016 Michigan Cup might just be instrumental in tipping the scales in my home state. ✨

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Cannabis Cup Results

BEST INDICA FLOWER

1st Place: Zkittlez from 3rd Gen Family with Terphogz with The Union
2nd Place: Strawberry Banana from Greenwolf Oregon with G.C. Rebellion Farms
3rd Place: Deathwalker OG from Radicle Genetics in collaboration with Lenz and Valerio

BEST SATIVA FLOWER

1st Place: Strawberry Banana from Mass Genetics
2nd Place: Tropicana from Cannabiotix
3rd Place: Dreamy Jones from Bud White at Interlochen Alternative Health

BEST HYBRID FLOWER

1st Place: Sunshine #4 by Bhodi Seeds from The Green Room Detroit
2nd Place: Savant's Grail from 710 Savant
3rd Place: Crown OG from Crown OG with A Detroit Alternative and Moxie 71

BEST INDICA CONCENTRATE

1st Place: Feygo Red Pop Live Resin from 710 Savant
2nd Place: Grape Valley Kush Live Resin from PeaceOil
3rd Place: Moxie Goji Live Resin from A Detroit Alternative

BEST SATIVA CONCENTRATE

1st Place: Clementine Live Resin from Crockett Family Farms
2nd Place: Romulan Grenade's Live Plant Run from LightSky Farms with NLG
3rd Place: Tangie Live Resin from Greenwolf Oregon and Moxie Genetics

BEST HYBRID CONCENTRATE

1st Place: Strawberry Banana Lemonade from Greenwolf Oregon and Moxie 710
2nd Place: Strawberry Banana from Loud Pack Extracts Oregon with Moxie Mix

3rd Place: Crown OG from Moxie Genetics with ADA East

BEST NON-SOLVENT HASH

1st Place: Goji Rosin from Moxie Seeds & Extracts with ADA East and Foundation Extracts
2nd Place: Moxie Solventless Goji 120-micron from A Detroit Alternative
3rd Place: 73-micron Bruce Banner #3 Freeze Dried Water Hash from Michigan Made Melts in collaboration with Kushmanjockin

BEST CBD FLOWER

1st Place: Perkins Cut Cannatonic from Mota Rebel Genetics
2nd Place: CBDDee's #1B from Pure West Compassion Club with LightSky Farms
3rd Place: Super Sonic CBD from Radicle Genetics in collaboration with Valerio

BEST CBD CONCENTRATE

1st Place: CBD Cookies / Cannatonic X / Cannasphere from Kannacare in collaboration with TerpTitan

2nd Place: CBDDee's #1B Live Plant Run from Pure West Compassion Club with LightSky Farms
3rd Place: Startonic Sap from Genotype A2 and A2 Wellness by ZombeeLabs

BEST CBD EDIBLE

1st Place: Special Fx Labs CBD Dark Chocolate Mint from Jackson County Compassion Center
2nd Place: Cherry Almond Sherbet Delight - CBD Special from ArborSide Delights
3rd Place: CBDDee's Strawberry Lemonade from LightSky Farms with NLG

BEST EDIBLE

1st Place: Kief Krispy from Budsuds with R.I. Finest with Kief Krispy
2nd Place: Captain Kirk's Truffle Tropicales from Captain Kirk Edibles of Ann Arbor Health Collective
3rd Place: Got Milk? from Mindright

BEST TOPICAL

1st Place: PBO from PBOHeals.com

2nd Place: Budsuds Purple Chem Topical Soap Bar from Budsuds with R.I. Finest and The Cali Connection
3rd Place: Trûû Hemp Infused Lotion from Mindright

BEST BOOTH

1st Place: Dabstars
2nd Place: Moxie Genetics
3rd Place: Advanced Nutrients / Weed Wear

BEST PRODUCT

1st Place: MOXIE / Moxie Mix
2nd Place: Raw Papers / HBI
3rd Place: Advanced Nutrients / Weed Wear / Advanced Nutrients / Weed Wear

BEST GLASS

1st Place: We Grow Michigan / Joe P x SD Ryno "Devil Duck Bot"
2nd Place: Sacred Expressions / The Collector
3rd Place: Nexus Glass / Tesla V3

BEST VAPORIZER

1st Place: Puffco / Puffco
2nd Place: VaporZ / VaporZ
3rd Place: Wildbill's Tobacco / Honey Pen

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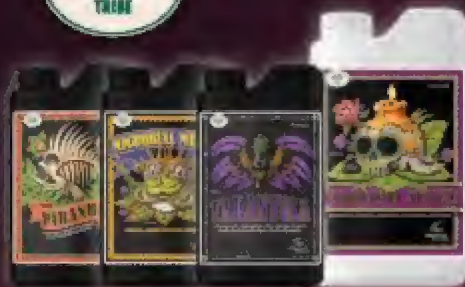
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Tarantula—Its beneficial bacteria inoculate the roots, safeguarding them by competing with and warding off harmful bacteria that can infect your plants. Reduces tissue damage from heavy fertilizer salts. Increases plant growth and yields by releasing grow and bloom cofactors and aiding chlorophyll, so your high-intensity lighting is more effective.

Microbial Munch—Maximize your microbial support, strengthen and maximize the benefits from all the beneficial microbes and fungi. It's a "superfood"—exactly what your plants need to transform into bigger, stronger, more resilient, and more beneficial creatures. In short, it's like putting them on steroids.

BUD AID
TRIBE

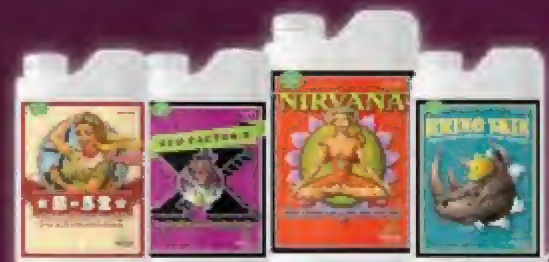


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Sensi Cal-Mag Xtra—If you're using base nutrients made by other companies, your crops could be deficient, leading to stunted growth and yellowing leaves. You can prevent that with Sensi Cal-Mag Xtra, the only calcium and magnesium supplement formulated with the exact Ca, Mg, and Fe ratios unique to the high-value plants we grow.

Revive—Guaranteed to rejuvenate your crops if they get into nutrient-deficiency trouble—which can happen if something unexpected and beyond your control occurs...or you're using inferior nutrients. Save plants in distress by adding it to your nutrient solution or using it as a foliar spray at the first sign of trouble. These rejuvenating substances flood the plant with healing nutrition. Use it at the first sign of trouble and your precious plants will get their best chance not only to survive, but thrive!

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& STALK
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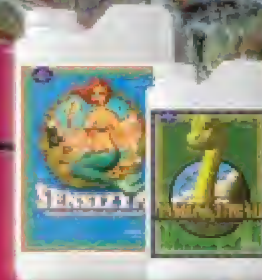
Nirvana—Guarantees bigger yields and bigger, denser, heavier buds... while driving your plants at a faster metabolic rate. Experience increased yield, quality, aroma, color, essential oils, and terpene production faster than you could have imagined without using synthetic nutrients.

Rhino Skin—Increases trichomes and essential oils for more potent harvests. Your buds will stand up, straighter and support bulkier, heavier buds. You'll get big, sticky, potent harvests with greater market value.

Bud Factor X—Triggers systemic acquired resistance (SAR) within plants to produce markedly higher amounts of essential oils and terpenoids which directly benefit taste, aroma, and resin production—giving you higher-quality crops with greater market value.

B-52—Amplifies overall plant metabolism, promotes stronger developmental buds growth and helps your crops fight off stresses such as intense light, cold weather, moisture, drought, and salinity.

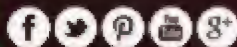
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SensiZym—Specifically formulated enzymes that agitate the root zone, removing debris and eradicating disease by "recycling" it into usable carbohydrates that fuel bud growth and boost yields. Growers report it also decomposes root zone debris so well, you can often reuse growing media such as rockwool and coco coir for another crop lifecycle—saving you money!

Ancient Earth Organic—A rich combination of humic and fulvic acid that will help transform your growing medium into a richer, healthier, more vibrant foundation for your crops while pumping up their roots. Also stabilize the pH and optimize nutrient delivery. Helps plants withstand disease, drought, and other environmental stresses.



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Bud Ignitor—All the energy your high-value crops had been putting into grow will transfer into a massive burst of blooms. You'll start to see signs of prolific budding within 5 days, instead of 10 or more without it.


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Big Bud—In the same way bodybuilders take in amino acids after a workout to bulk up on proteins—the building blocks of life—so too do your buds need a big amino boost. See gains in size, mass, and potency from the rich assortment of bioavailable amino acids.

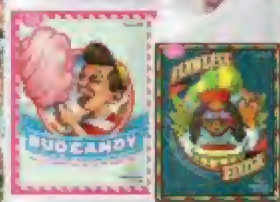
Ripening Phase

Overdrive—Get even more out of your plants during the finishing phase. Reinvigorate your crops with a second wind, giving you much bigger yields when harvest day dawns.

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hippie chick

A Tale of Love, Devotion & Surrender. Photos by Jay Blakesberg





From the moment *Hippie Chick* crossed my desk I was enraptured, captivated for hours by the sheer beauty of the festival and hippie clan of women photographer Jay Blakesberg magically captures in this, his 10th book of photography. The images instantly struck a deep chord. These are women I want to know, their stories jumping off the page—inviting a deeper multi-dimensional look into their experience, something not ordinarily attainable by a surface-level photo.

Blakesberg, who has followed and traveled with different rock 'n' roll outfits and jamband counterculture icons like the Grateful Dead to festivals over a 35-year career, eloquently describes to *High Times* this latest collection of earth mothers, fire-twirlers and hula-hoopers as an endeavor into visual anthropology. — Jen Bernstein

"This is a tribe. A tribe that has existed for 50 years if you trace it back to the birth of the Haight-Ashbury in 1965. You can study tribes



that are 50 years old and this is academic, and this is scholarly. These are women who are just starting their journeys, and creating them," Blakesberg says.

"The purpose is to catch an intense moment. It's about the fashion, the passion, the inspiration of these women that they bring — and that's what I'm trying to capture in these photos. The bliss. The magic. The experience.

"I think everyone moves differently. Everybody's body moves differently. All the hula-hoopers move differently. I think the hula-hoopers are a beautiful new extension to the whole thing. There was no hula-hooping at Grateful Dead concerts.

"Look at the pictures of these people. These girls are in the moment. The music is moving them to be in the moment. Look at the expressions on their face or their body language."





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"I always say that we are the sum of our experiences. And all the women in this book are creating these experiences for themselves that will define who they are for the rest of their lives."

Head over to rockoutbooks.com to order *Hippie Chick* (\$45.00) and view more of Blakesberg's trailblazing concert, festival and music-loving women. ✨



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XL1000



Dimensions: 23"x17"x3.5"

Weight: 28lbs

Actual Wattage: 450w, 120-240v

HID Wattage Equivalent: 750w

Total Diodes: 208

Footprint: 4'x4'

Infrared/Ultraviolet Diodes: Yes

Dimensions: 26"x20"x3.5"

Weight: 36lbs

Actual Wattage: 650w, 120-240v

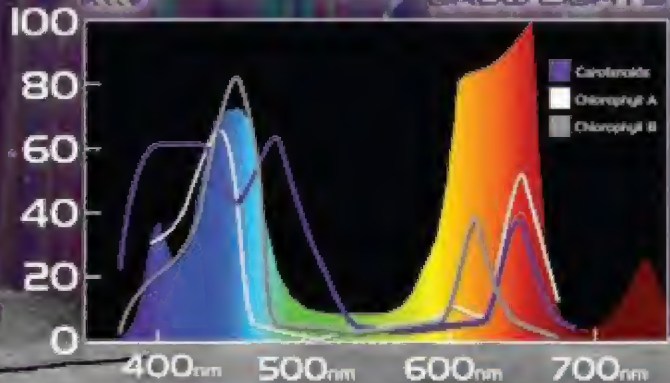
HID Wattage Equivalent: 1000w

Total Diodes: 320

Footprint: 5'x5'

Infrared/Ultraviolet Diodes: Yes

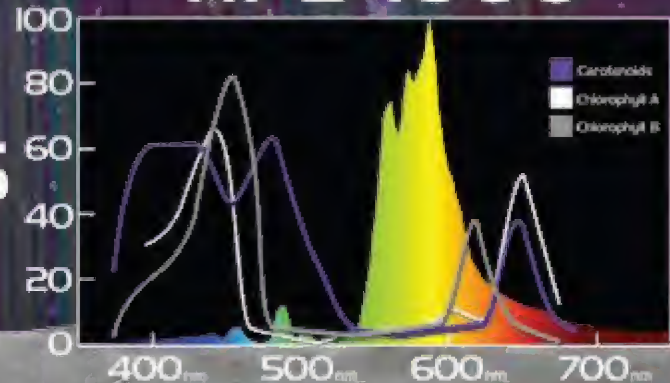
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Dream Dispensaries



At AHHS in West Hollywood, the dispensary staff spreads all kinds of happiness.

What does it take to hit it big on the Hollywood cannabis scene? Just like in the movies, you gotta connect with the audience! *Story & photos by Dan Skye*

At 10 a.m., Jason Beck opens the doors of AHHS (Alternative Herbal Health Services) in West Hollywood. It's Monday, and business will be slow—at least until 2, when patrons start to replenish their medication for the coming week.

AHHS is the oldest dispensary in California south of San Francisco still in operation. Jason actually set up shop in the City by the Bay, but after a request by West Hollywood City Councilman John Duran, a gay-rights activist and medical marijuana proponent, to consider opening the first dispensary in Southern California, Jason transplanted AHHS's operations there. Since 2004, it's been a vital part of West Hollywood—a municipality that, in 1996, approved Proposition 215, the state's

landmark medical marijuana initiative, with 82 percent of the voters in favor, even higher than San Francisco's 78 percent margin of support.

Dr. Dina, Jason's partner in running the dispensary, rolls in shortly after he arrives. Her Monday has started badly—with a fender-bender—and she's none too pleased with the attitude of her counterpart in the accident, which she describes as obstinate and “whiny.”

Dr. Dina was given her moniker by no less a luminary than Snoop Dogg, after helping him to secure a medical marijuana recommendation. But she's not an MD or a PhD; she's an LA pot star and industry professional made famous by her assistance to celebs seeking to use cannabis legally for medical



Jason opened AHHS in 2004, transplanting it from San Francisco.



Popular Dr. Dina is the designated out-front personality for the dispensary.



AHHS Brand OG has taken both first and second place at recent Cannabis Cups.

reasons. Some call her a “canna-lebrity.” “Lame!” she snaps.

One thing about Dr. Dina—she’ll tell you how she feels about things. She’s been a medical marijuana consultant since 2003, almost as long as Jason’s been in the business. (His own legitimacy commenced, he quips, when “I turned my pager into a storefront.”)

When Jason moved AHHS to West Hollywood, Dr. Dina was curious—actually, more than curious: “Who did this dude think he was, moving into my territory?” she remembers asking herself facetiously.

But when the two finally met, she was pleasantly surprised by Jason’s lack of guile and genuine concern for those in need. It’s a concern rooted in his own personal experience: Jason has dealt with cerebral palsy his entire life and

She shepherded hundreds, if not thousands of patients seeking legal status.

walks with a slight limp.

“I had my last seizure in 1999,” he explains, “on a day when I didn’t medicate because I was in so much pain. I’m always worried about what might happen again if I don’t medicate.”

Jason and Dr. Dina have since become a formidable team. Jason has close ties to the political community; the walls of his office at AHHS are decorated with photographs of him with various officials—including close acquaintance Gavin Newsom, the current lieutenant governor, who’s running for California’s top job in 2016.

Dr. Dina, meanwhile, is the local star, a “medical marijuana consultant” to Hollywood and the host of *Cannabis Confidential*, a popular web radio show. She was also the inspiration for Nancy Botwin, the lead character in the long-running Showtime series *Weeds*. Not that Dina ever sold pot, but prior to her involvement with AHHS, she shepherded hundreds, if not thousands, of patients seeking legal status by running scores of informal “clinics,” which enabled them to see doctors who would provide medical cannabis recommendations.

AHHS was named “Best Marijuana Dispensary” by *LA Weekly* in 2013.

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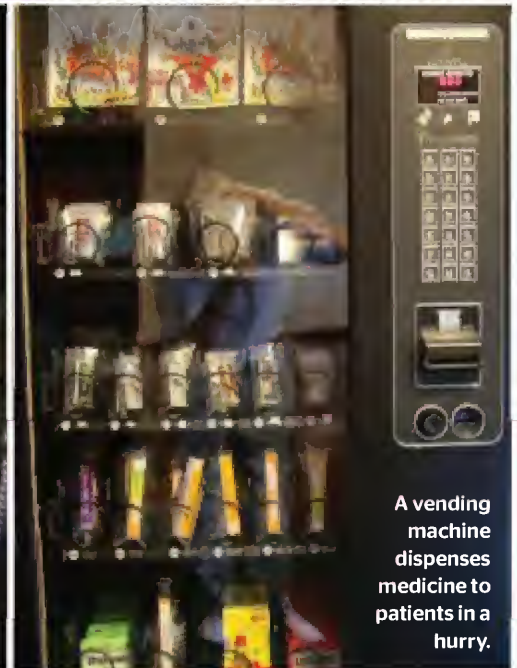
The AHHS storefront on Santa Monica Boulevard



AHHS stocks its shelves with the finest concentrates.



Canks serves as the overseer of the AHHS gardens.



A vending machine dispenses medicine to patients in a hurry.

Located in a busy shopping district, it's been approved for onsite commercial growing, and its growrooms produce award-winning crops. The AHHS Brand OG won the Cannabis Cup for Best *Indica* Concentrate at the *High Times* NorCal Medical Cannabis Cup last June, and its XJ-13 Lemonhead grabbed a second-place award for Best Concentrate in Sonoma County the year before.

"We run all AHHS Brand OG here," Jason says, "typically about 400 plants at one time. We yield one to 1.5 pounds per light. When we have a gas line installed, we expect to bump it up to two pounds per light, because our CO₂ burner will operate correctly. In the meantime, we use propane tanks—but one tank doesn't last a full day cycle in the room, so it's not quite maximized yet."

AHHS's lighting consists of 18 1,000-watt switchable Galaxy ballasts

with 1,000-watt Hortilux high-pressure sodium (HPS) bulbs. When the dispensary gets its power upgrade, they'll go from a 200-amp breaker to a full 600-amp breaker. At that point, they hope to install up to five more of the same. "We don't air-cool our lights," Jason says. "We prefer open lights and use Adjust-a-Wing hoods currently."

The plants are top-fed and hand-watered as needed. Botanicare provides the grow medium and most of the nutrient line for AHHS. The plants are first transplanted into 1-gallon pots, and they'll go all the way up to 7-gallon pots by the time they reach the flowering room. Along the two shelving units in the veg/clone room, 12 Sun Blaze lights from Sun System, outfitted with eight 54-watt T5 bulbs, nurture the babies. A Biowave Mini Growth Booster and a 600-watt light from MTL Technology keep the

mothers healthy and strong.

Patients shop for their medicine in a cozily furnished purchasing area stocked with a full range of cannabis products, as well as a vending machine in the corner for patients on the move who already know what they like.

To be sure, West Hollywood is one of America's most liberal cities, but Jason and Dr. Dina don't allow their 11 years of success with AHHS to make them complacent. "We stay connected politically," Jason says. "We keep an open dialogue with our government. They know our intentions, and we know the hurdles they face. It's a matter of working together."

Twenty minutes to the east—or however the Los Angeles traffic treats you—the business day for Greenwolf LA is getting under way. Its story is a bit different from AHHS's tale. Greenwolf has been in business for less than 18 months,

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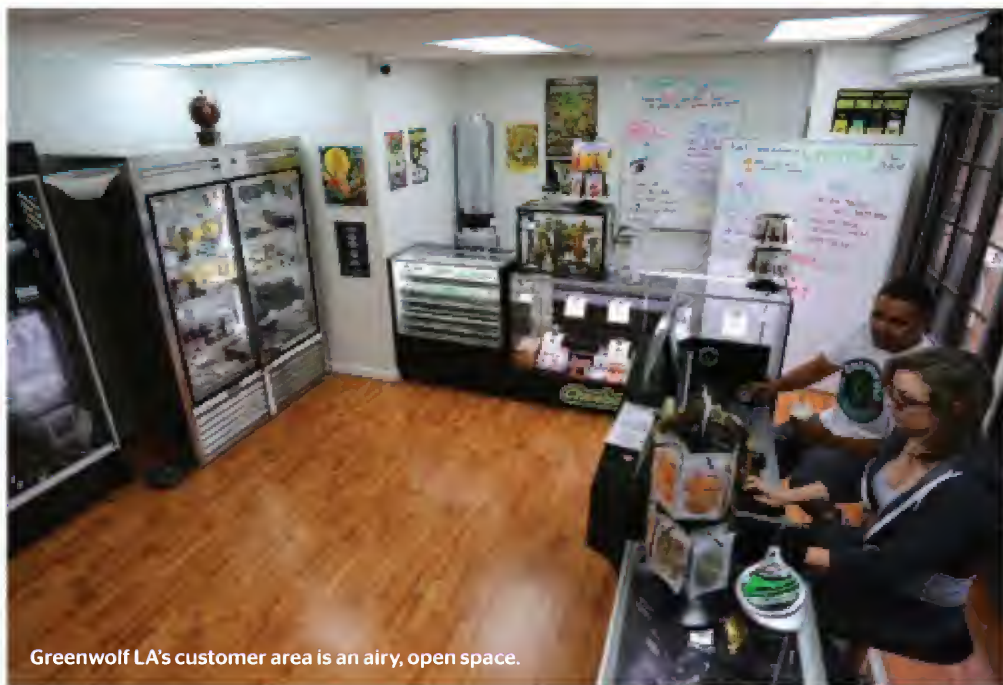
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Greenwolf LA's customer area is an airy, open space.

but it's already been widely praised as one of LA's finest shops.

However, the Los Angeles city government has handled the emerging cannabis industry ham-handedly and has never been able to develop a clear policy for regulating the dispensaries. As a result, the dispensaries have been under fire here since 2010, and in the past two years, City Attorney Mike Feuer has

closed over 500 shops (although industry observers say that more than 600 have opened in their place).

Even Greenwolf, a legal pre-ICO cannabis collective, was subject to a temporary shutdown last year, following an unwarranted raid by an overzealous member of local law enforcement. (Pre-ICO collectives are those registered with the city according to the 2007 Interim

Control Ordinance, or ICO. They weren't subject to closure following the passage of Measure D, a 2013 city ordinance that limited the total number of dispensaries in LA to 135.)

Greenwolf went to court and defended itself successfully, arguing that although it came into existence after the 2007 control ordinance was passed, it had taken over a legal pre-ICO collective's business in 2014 and therefore now had the same standing. The case bolstered its legal status—and its popularity.

In its brief lifespan, Greenwolf LA has won more *High Times* Cannabis Cup awards at US events than any other cannabis business—well over 20, if you count the awards for shared vendor booths. In fact, at the first two Cups of 2015, in San Bernardino and Denver, Greenwolf shared honors in 12 different cannabis categories!

Liz is the general manager of Greenwolf, which is located in the LA suburb of Atwater Village, ensconced in a professional medical office building with a hidden parking lot. "It makes getting medicine a private affair," Liz says.

Greenwolf also sits on the edge of Burbank and Glendale, two cities that prohibit dispensaries; naturally, patients from both places flock here.







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OREGON LOCATION COMING SOON

The shop is currently taking over additional space. The Greenwolf customer area is an airy, casual, open space outfitted with light wood floors, glass showcases and well-stocked refrigerators. But the office needs more breathing room, since it operates at a frenetic pace, handling patient transactions and interacting with the myriad vendors who partner with Greenwolf and have helped it realize its achievements.

"It's the art of collaboration," Liz explains. "We try to partner up with the very best growers, the best concentrate producers and, of course, access the very best genetics."

She describes Greenwolf's focus on "the best" as mirroring Barneys, the luxury department store, which offers high-end items to discerning shoppers. The dispensary boasts an array of Cup-winning products and more than 10 different OG varieties, and its edibles menu is huge.

Greenwolf was also recognized by *Inc.* magazine for its eye-catching logo, a snarling green wolf's head—among the eight chosen as the best in the legal cannabis industry. It's the perfect vehicle for Greenwolf to expand its brand.

"We're already engaged in consulting projects and working on franchising," Liz says. "We'll help set up grows and extraction equipment, teach new owners about shrinkage and shorting losses. There are a lot of nuances to running a successful dispensary. But just give it time. You'll see our brand everywhere."



Liz, Greenwolf's general manager, supervises the action; a stockpile of medicine is ready for sale.

And as Greenwolf's success has amply demonstrated, time is on their side. ✨

AHHS is located at 7828 Santa Monica Boulevard in West Hollywood, and online at ahhsweho.com. Greenwolf LA is located at 2950 Los Feliz Boulevard in Los Angeles, and online at greenwolf.la.

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Our senior cultivation editor and author of *The Official High Times Field Guide to Marijuana Strains* reveals his choices for the most fragrant, flavorful and potent pot varieties of the year. *By Danny Danko*



The leaves on Flubber are covered in trichomes to their tips.

FLUBBER

LaPlata Labs

Lineage: *The Flav x Alien Bubba Berry*

Flowering time: 8 weeks

LaPlata Labs have made quite a name for themselves in a relatively short period of time. Their newest strain, Flubber, has all the desirable traits of an *indica*, including short flowering times, heavy yields and a narcotic stone perfect for a nighttime smoke.

Exotic fall colors of purple, red and pink cover the leaves, flowers and trichomes.

Because she's very forgiving, Flubber is a great strain for beginner growers, tolerating environmental fluctuations and staying fibrous and stout, which means there's no staking or trellising required. Extract artists will appreciate her essential-oil production—perfect for concentrating the resins into hash.

Contact: laplatalabs.com

Night Nurse will help you sleep.



NIGHT NURSE

BC Bud Depot

(3rd place 2014 Amsterdam HTCC hybrid)

Lineage: [BC Hashplant x Reeferman's Harmony] x Fire OG Kush male

Flowering time: 8 to 9 weeks

Insomniacs, rejoice! BC Bud Depot have developed a strain that soothes aches and pains as well as facilitates sleeping peacefully throughout the night. The resinous Night Nurse grows into dense nuggets with a first-impression scent of pastry (think cookies or cupcakes). Grind them up and a second, more subtle aroma of licorice and sandalwood appears.

With a relatively short flowering time and an abundant yield when the roots are given room to breathe, Night Nurse is a grower's dream to cultivate. Breeder Matt recommends growing her from seed in organic soil for full terpene representation.

Contact: bcbuddepot.com

Zkittlez shines in full sun.



ZKITTLEZ

3rd Gen Family/Terp Hogz

(1st place 2015 NorCal HTCC indica)

Lineage: (Grapefruit x Grape Ape) x Mystery Male

Flowering time: 8 to 9 weeks

After many years of growing and breeding in the Emerald Triangle, the cultivation collective known as 3rd Gen Family has unleashed their time-tested NorCal strains to the general public in conjunction with Terp Hogz. Following up on a 2013 second-place *Indica* Cup win for their OG Eddy Lepp, 3rd Gen introduced their new variety, Zkittles, to much fanfare.

This strain produces fluffy orange-haired nuggets with the scent of a lemony-grapefruit ice-cream dessert. To reach her maximum potential, 3rd Gen recommends growing Zkittles outdoors in full sunshine, but to maintain humidity levels if growing indoors and feed lightly. The finished product also makes for amazing rosin when using the heat-pressing technique (a.k.a. the hair-straightener method).

Contact: 3rdgenfamily.org



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COOKIES & CREAM

Exotic Genetix

(1st place 2014 Denver HTCC hybrid)

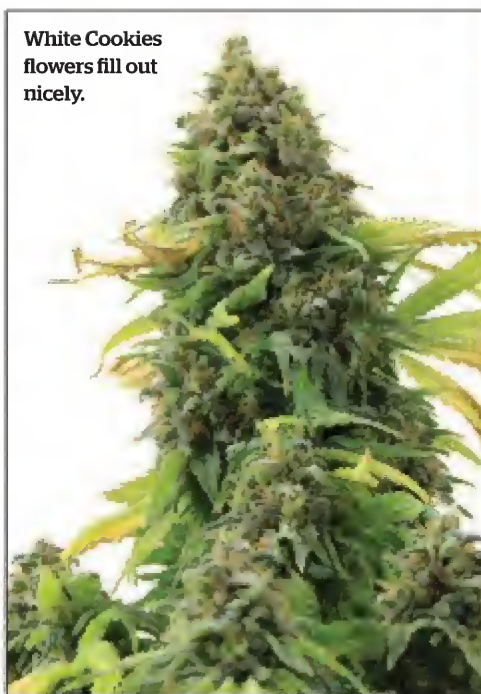
Lineage: *Mystery Girl Scout Cookies x Starfighter F2*

Flowering time: 8.5 weeks

With so many outstanding Cookie crosses to choose from these days, it can be hard to find the right one for you. But if you're looking for a unique and powerful strain, look no further than Cookies & Cream, an award-winning hybrid with an amazing orange-sherbet flavor and the scent of creamy vanilla cookie dough with subtle hints of nuts.

Patients having trouble sleeping will marvel at this potent bedtime strain, which has also been reported to work wonders for those suffering from strong headaches. Exotic Genetix's breeders advise topping the plant during the vegetative stage to achieve multiple colas of robust medicine.

Contact: exoticgenetix.com



WHITE COOKIES

Crop King Seeds

Lineage: *White Widow x Girl Scout Cookies*

Flowering time: 8 to 9 weeks

Crop King earns their first Top 10 Strain with White Cookies, a super-frosty, *indica*-dominant hybrid that smells like lemons and pine, with the earthiness of classic old-school bud. She has a strong body high that works well on stress, nerves and anxiety, and she also functions as an effective appetite stimulant for patients suffering from nausea.

White Cookies yields well with the use of cropping techniques during the vegetative stage as well as staking or SCROG ("screen of green") during flowering to keep colas close to the light for maximum density and resin production. Crop King's breeders also recommend taking White Cookies the full nine weeks for the best expression of her genetic qualities.

Contact: croppingseeds.com



SCHLEMONS

The Source Genetics

(1st place 2015 NorCal HTCC sativa)

Lineage: *Gorilla Glue #4 x [Schrom x Pre-Soviet Afghani]*

Flowering time: 10 to 11 weeks

Winning the *sativa* category in a Cannabis Cup in NorCal is no easy task, but OG Kushman is no ordinary breeder. Years of experience in cultivation and strain collection have turned him into a phenotype hunter with a gift for finding hidden treasures. For Schlemons, he chose a Colombian-leaning male (a gift from his friend Tha Docta) that would bring out the tart lemony traits he desired.

The high from Schlemons is very energetic with no ceiling, so you can smoke it all day. OG Kushman tells me, "She will need support due to the large flowers she produces. Schlemons glistens with trichomes and is a hashmaker's dream."

Contact: [instagram.com/tharealogkushman](https://www.instagram.com/tharealogkushman)



LAMB'S BREATH

Old School Breeders Association

Lineage: *Jamaican landrace IBL (inbred line)*

Flowering time: 7 to 8 weeks

Grown in the mountains of Accompong by the Trelawny Town Maroons for many years, the high-CBD Lamb's Breath (sometimes referred to as "Lamb's Bread") is making a comeback. Luckily, the Old School Breeders Association are bringing this uplifting cerebral treat to the masses in seed form. Her sweet and earthy bouquet will remind old-timers of the *sativas* of yesteryear, but with the potent electrical buzz still intact.

Rumored to be Bob Marley's favorite strain, Lamb's Breath is best grown in a dry outdoor climate and (preferably) not confined to pots. For a taste of island genetics, come to the Rastafari RootzFest, which will be hosting the *High Times* Jamaica Cannabis Cup from November 12-15 in Negril, Jamaica.

Contact: oldschoolba.com

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MEGA WELLNESS OG

Nameless Genetics
(1st place 2015 SoCal HTCC hybrid)

Lineage: OG Kush phenotype

Flowering time: 8 to 9 weeks

The best OG Kush phenotypes bring out the tangy sour-fuel smell and lemon-funk flavor that made the strain famous—to say nothing of the sticky, trichome-infested buds and intense couch-lock high that have ensured the popularity of real Kush genetics among connoisseurs and patients alike.

Some OG strains have a reputation of being hard to please when it comes to getting good yields, but the Mega Wellness OG can be dialed in to achieve heavy harvests. The breeders at Nameless stress that she's a light feeder, so go easy on the nutrients and keep the pH between 5.8 and 6.1. They also recommend using Advanced Nutrients to get up to 3.5 pounds per 1,000-watt light.

Contact: namelessgenetics.com



ORANGE COOKIES

Franchise Genetics
(2nd place 2015 SoCal HTCC hybrid)

Lineage: Girl Scout Cookies x Orange Juice

Flowering time: 7 to 8 weeks

You'd have to be living under a rock not to have heard of the illustrious Girl Scout Cookies strain in the last few years. Franchise breeder Obsoul33t pollinated the forum cut of GSC with an Orange Juice male to produce this *sativa*-dominant citrus bomb of flavors and scents that includes hints of tangerine peels and Creamsicles.

Growers will be in awe of the trichome production of Orange Cookies. Frosty crystals cover every surface of the buds, and concentrates made from this strain have a unique depth to their terpene profile. Orange Cookies flowers provide an amazingly energetic daytime smoke, sure to impress even the snobbiest of connoisseurs.

Contact: franchisegenetics.com



STRAWBERRY BANANA

Crockett Family Farms
Lineage: Banana OG x Bubblegum

Flowering time: 9 weeks

Crockett Family Farms became widely known for their multiple-award-winning Tangie strain and subsequent crosses sold through the DNA Genetics offshoot Reserva Privada. Now they're providing an assortment of exceptional cannabis varieties, with Strawberry Banana at the top of the pile.

This incredible strain, created in 2007 in California's Central Valley, produces completely frosted flowers with the scent of a strawberry-banana smoothie. Breeder Crockett says they provide decent yields indoors but can achieve much bigger harvests outdoors or in a greenhouse. Butane-extracted concentrates and solventless hash made from Strawberry Banana enhance its naturally fruity terpenes.

Contact: dnagenetics.com or crockettfamilyfarms.com ✨

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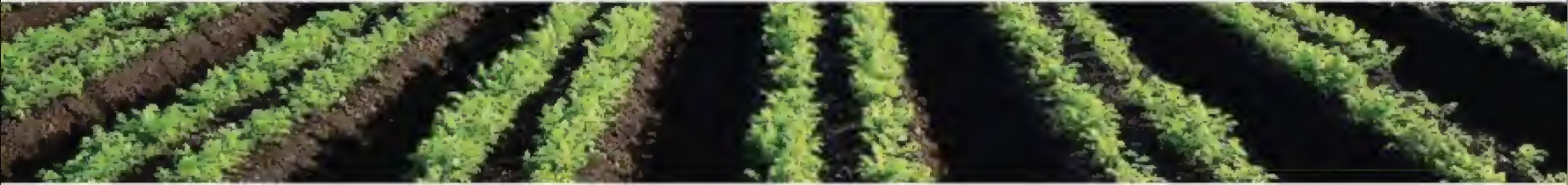
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self-loathing stoners anonymous

Story by Rick Cusick. Illustrations by Paul Kirchner

*To be nobody but
yourself in a world which
is doing its best day and night to make you like
everybody else... —e. e. cummings*

Don't you just hate yourself?
The dishes are piled in the sink. The dog needs to go out. The trash is piling up. The laundry has to go in the dryer. All because you smoke too much pot.
You're late with the rent... They might turn off the lights... Comcast keeps calling (Fuck Comcast!)... And now there's dog shit on the floor.
All the bad things happen to good people because they're stoned. Everyone knows that. You get high and your world comes undone. Say goodbye to your money. Say goodbye to your time. You're way too distracted. You're far too unfocused. You eat too many cookies.
All because you smoke too much pot.
And don't get me started on dabs.

Whenever something goes wrong in my life, I can always blame the pot. Sometimes I suspect that these small failures and too-many undones are the natural distance between my good intentions and my poor performance; more often, I simply tell myself that I smoke too much weed. As if doing these last few bong hits has anything to do with the fact that the dog just shit on the floor! There's a constant mewling voice in the front of my head that I've learned to happily ignore, and I'm not alone in

You forget to remember but remember you forgot, then you forget the whole thing 'cause you smoke too much pot.

that selective perspective. Over the years, I've realized that many of my fellow potheads feel the exact same way. We are self-loathing stoners and, truthfully, we are far more amused (and amusing) than tortured.

The litter box needs cleaning. The grass needs mowing. The walk needs shoveling, and you're doing dabs.

Don't you just hate yourself?

Not every pothead is a self-loathing stoner, just like not every Catholic is ridden with guilt. I'm sure there are squadrons of self-confident tokers who know they do nothing wrong—never have and never will—and never question that basic premise, either. If you're one of those people, you are blessed. But there's a large gang of bud folk who also know they've done nothing wrong—never have and never will—but nevertheless must contend with a nagging little whisper that rises like smoke from the prefrontal cortex, where all the guilt grows, to always annoyingly insist that the cat litter needs changing. The floor needs a sweep. The library wants the books back that you didn't mean to keep.

You're always late, you procrastinate, you do not pay attention... And remember later when I say this again: You don't have much retention.

You forget to remember but remember you forgot, then you forget the whole thing 'cause you smoke too much pot.

The self-loathing stoner is a too-common phenomena that exists for far too many reasons—not just because the floor



obviously needs washing and the lawn obviously needs mowing while you're obviously watching the *Star Trek Next Gen* marathon... again. It exists because everyone around you is telling you: You smoke too much weed!

Your parents. Your teachers. Your wife. Your husband. Your boyfriend. Your girlfriend. Your uncle. Your aunt. Your doctor. Your lawyer. The police and the government. They all know what's best for you.

Maybe you should put the bong down!

Maybe you're getting too high!
Maybe you should slow down!
Maybe—just maybe—you should stop smoking pot!

Okay. That's not going to happen.

I've had this nagging little voice in the front of my head for a very long time, and I've paid it no attention—but once, about five years ago, I listened to it and didn't smoke pot for two and a half years. I was loath to leave my beloved marijuana behind, but I thought it was for the best

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and, searching for the silver lining, I looked forward to putting my house in order, literally and figuratively, when I was finally past the distraction of weed.

Two and a half years later, just before I went back to the bud with a vengeance, someone asked me how I felt.

“Bored,” I said without hesitation. “Very bored”—before noting wryly that after 30 months of flying straight as an arrow, the dishes are still dirty, the dog still shits on the floor, the trash still climbs to the ceiling, and the laundry still needs to magically float to the dryer. I still have no money; I still have no time. I cut down on cookies (but I count that as a loss).

So what did I learn from not smoking pot for two and a half years? I learned that pot doesn’t make me lazy. I am lazy. In fact, I have a talent for lazy.

Don’t you just hate yourself?

Because, left to our own devices, we might very well decide that we smoke just enough weed—not too much, not too little, just enough! But they won’t leave it alone. Clean the bathroom! Go to the store! Where’s the car keys? Wash the floor! Jeez! Hell is just other people.

Or the government. Hell is the government telling you what’s best, and they’ve

So what did I learn from not smoking pot for two and a half years? I learned that pot doesn’t make me lazy. I am lazy. In fact, I have a talent for lazy.

proved that proposition for over 80 years by promoting as truths ludicrous lies like marijuana is addictive, drives you crazy, makes you lazy and grows breasts on teenage boys. The sheer volume of willful mendacity that has been aggregated over more than fourscore years of Drug War nonsense is matched only by the unchecked arrogance with which the lies were always presented. They not only said we were wrong; they said we were bad and put us in jail.

It’s gotten better lately, but it’s far from over. More than 700,000 Americans were arrested for marijuana last year. When I started at *High Times* almost two decades ago, about 35 percent of the American public favored marijuana legalization. Now, through unrelenting

incremental reform, we’ve gained about a point a year, until approximately 53 percent of Americans currently believe that marijuana should be legalized.

Despite these gains, our enemies abide. Presidential hopeful Chris Christie, governor of New Jersey, said recently that marijuana smokers are “diseased” and that, if elected, he would have them “treated by armed federal agents.” The self-loathing stoner is pushed and pulled and squeezed out of provocative statements like that, which is only the latest in a litany of ongoing lies.

The simple truth is there’s nothing wrong with smoking marijuana—nothing!—and the little voice in the front of your head tells you bald-faced lies. Just like the government. Don’t listen to it, and don’t listen to them. Blaze with abandon, my friends, and understand that you are part of a larger narrative and, indeed, that you are the hero of that story and on the right side of history. And to the small-minded minority of cretins like Governor Christie—who would continue the failed American war on marijuana, who would continue to push and pull and squeeze and lie—I have one final question, seriously:

Don’t you just hate yourself? ✨



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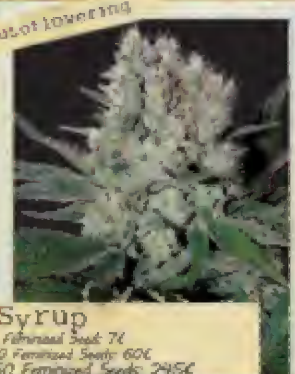
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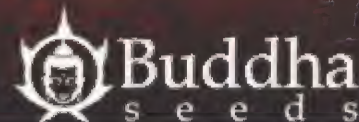


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Plenty of air circulation and ventilation is necessary for manicured flower buds to dry.



The Connoisseur's Harvest

World-renowned cultivation expert Jorge Cervantes lays out the details on drying and curing, including the best ways to maintain the fragrance, flavor and potency of your buds, in this excerpt from his new book, *The Cannabis Encyclopedia*.

Read It and Reap: An Overview

A bountiful harvest of consistent, disease- and pest-free cannabis is the reward for your financial investment and hours of work and worry in the garden. Strong, healthy, well-grown clones and seedlings yield the heaviest harvests. A well-organized harvest will cut your workload, and a basic knowledge of what's happening in the cannabis plant will help you to preserve its medicinal qualities during and after harvest.

Cannabinoid levels increase as plants approach peak ripeness. Proper timing is essential to achieving the desired cannabinoid levels. Indoors, the peak harvest window is normally open for about five to seven days, but not all flower buds are ripe at the same time. Some gardeners

harvest their crops early—after 45 to 50 days of flowering, and before the buds reach peak maturity. The vast majority of gardeners, however, harvest their gardens at peak maturity. Cannabinoid profiles, especially THC content, are highest at this time.

The bulk of cannabinoids, including THC, are found in resin glands that cover the flowers and leaves; lesser amounts are present on stem surfaces and in the interior cells of the plant. Stems and roots may smell like they have cannabinoids, but they actually contain much lower levels of the desirable ones. Male plants contain much lower quantities and levels of cannabinoids than do female plants, and so they are normally harvested before they can pollinate the females.

Unpollinated female plants (sinsemilla, or “without seeds”) have the greatest amount of resin glands and cannabinoids, and are harvested when resin glands show peak ripeness. After harvest, leaves and flower buds are separated, manicured, dried and cured.

Growth stops at harvest, and thereafter the THC content cannot increase. Some plant processes will continue until the plants run out of energy stores. Overall cannabinoid levels are fixed, but change with harvest from inactive cannabinoids to active ones or back again.

Drying removes about 75% of the water weight found in foliage. Drying concentrates the cannabinoids in relation to the plants' overall weight. The actual cannabinoid content of the

resin glands will remain the same or decrease after harvest. Proper handling is key to retaining cannabinoid potency. Prolonged periods of light, temperatures above 80°F (26.7°C), friction from excessive handling, and damp, humid conditions should all be avoided, because they degrade resin glands and cannabinoids.

Washing the branches of harvested flower buds in a mild solution of H₂O₂ (hydrogen peroxide) has become a popular technique. We wash vegetables before consuming them, and cannabis is no different. A gentle bath of H₂O₂ removes surface bacteria, mold, dirt, dead pests and their feces, and other bad stuff. Such a bath also creates free radicals.

An H₂O₂ free-radical drench changes anything composed of carbon, just like using ozone in a garden space or curing room. Washing treated buds with plenty of fresh water is essential. No studies have been done to determine the potential for damage to the carbon chains in cannabis after an H₂O₂ bath.

Avoid excessive damage to resin glands by manicuring fresh flower buds immediately after harvest. Manicure the harvested plants when the foliage is still supple, by hand or using a trimming machine, to remove the outer, less-potent foliage from flower buds. Once manicured, flower buds are dried slowly to equalize their moisture content, preserve cannabinoids and remove chlorophyll.

After drying, flower buds must be cured to achieve full aroma and flavor. Too often, beautiful buds are dried too quickly or in an area with too much heat and thus are not cured properly. Handling cannabis too roughly may rupture the resin glands and degrade resin and terpenes. Flower buds maltreated in this way lose their bouquet. As the resin glands degrade, their cannabinoid content decreases. Also, poorly and quickly dried cannabis still contains various amounts of chlorophyll, starches, nitrates, etc.

Once the cannabis is cured, proper storage will ensure that it retains all of its essential qualities.

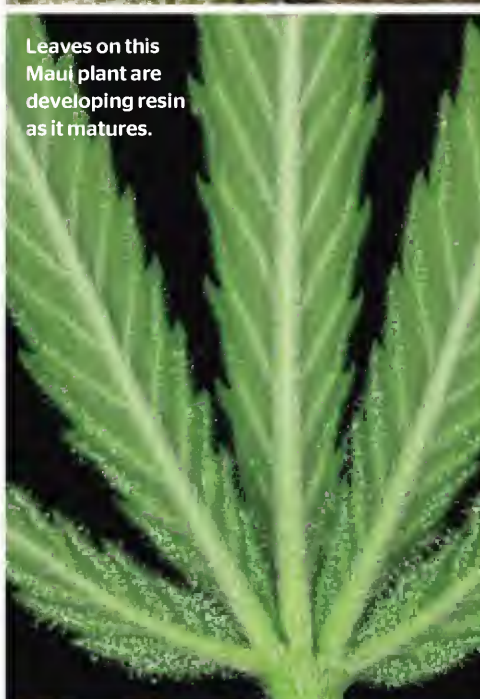
Before Harvest

Do not water your plants for one or two days before harvest. The soil should be fairly dry, but not so dry that the plants wilt. This will decrease the drying time by a day or more and will not affect the quality of the cannabinoids and terpenes.

The fragrance of flowering cannabis is often pungent before, during and after harvest. If the air in and around the drying and manicuring rooms is stagnant,



The leaf stem (petiole) has few resin glands that contain cannabinoids. This image shows many cystolith glands.



Leaves on this Maui plant are developing resin as it matures.



Growers are harvesting gardens full of cannabinoid-rich flower buds grown to test the varieties of DNA Genetics.

odors will linger and accumulate. To help control fragrance, keep the drying and manicuring rooms well ventilated. If possible, allow plenty of fresh circulating air to pass through the drying room to remove fragrances quickly, and keep temperatures below 70°F (21.1°C) to minimize aroma.

Loss of Fragrance

“Terpenes, or terpenoids, are the compounds in cannabis that give the plant its unique fragrance. THC and the other cannabinoids have no odor, so marijuana’s compelling fragrance depends on which terpenes predominate. It’s the combination of terpenoids and THC that endows each strain with a specific psychoactive flavor.”

—Martin A. Lee, “Talking Terpenes,” *High Times*

The aroma, taste and, ultimately, effects of smoked cannabis depend upon the mix of terpenes and cannabinoids in the plant. Often, cannabinoids and terpenes volatilize and are destroyed during flowering, harvest and storage as a result of high temperatures and maltreatment. The absence of these compounds diminishes bouquet and taste. It can also change the overall effect of the cannabis when consumed.

Cannabis plants lose their fragrance for a combination of reasons, all of which involve the destruction of terpenes or the creation of a poor environment for terpene development. During flowering, plants that are subjected to heavy weather—including wind, rain, and hot sunlight or artificial light—are often less fragrant. Outdoor plants also accumulate surface dust, bacteria and other bad stuff. When allowed to remain on the plant, these pollutants can smell and may possibly speed cannabinoid and terpene degradation. Ironically, however, poorly ventilated *indoor* environments are often more polluted than the great outdoors. Such pollutants can also play a role in diminishing fragrance.

Terpenes and cannabinoids evaporate into the air under a wide range of temperatures. As temperatures climb, more and more terpenes evaporate into the air. Terpenes can be destroyed by high temps, humid weather, wind, rain, and rough or excessive handling. Also, terpenoids may not have a chance to develop properly in plants that grow under the stressful conditions caused by climate, poor care, or attacks by pests and diseases.

As stated earlier, cannabis can lose its

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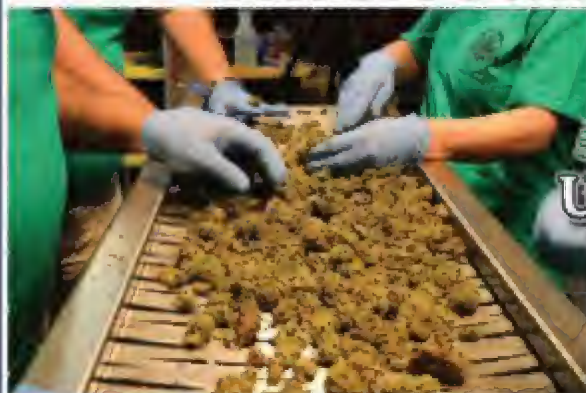
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fragrance when it dries too hot and too fast. Fast drying doesn't allow enough time for chlorophyll and other pollutants to dissipate, and these may remain in the foliage. The lingering traces of these undesirable elements can impart detectable odors and tastes when the cannabis is consumed.

When poorly dried or allowed to stay too wet (as if in a compost pile), cannabis starts the process of anaerobic decomposition. This process causes the cannabis to smell like wet hay and, in extreme cases, to have an ammonia-like odor.

Plants can also harbor powdery mildew or other diseases within their tissue. Powdery mildew is impossible to detect without laboratory analysis. Such diseases weaken the plants and can also play a part in the deterioration of fragrance.

Genetically, some plants appear to be predisposed to have less aroma and to lose fragrance over time. In combination with climatic conditions, genetics could play a role in minimizing cannabis fragrance.

The use of negative-ion or ozone generators has little impact on the fragrance of growing cannabis. Ozone generators, used to control odors, introduce



Hanging plants upside down to dry is simple, convenient and effective.

ozone (O₃) into an enclosed area. The O₃ converts to O₂ (oxygen) within a few minutes. A free radical of O floating next to O₂ becomes stable when they combine to form O₂. However this O molecule can attach to any carbon it finds and strip it away. Much of the O₃ is converted to O₂ in the air, but the laws of equilibrium and diffusion also apply. If used, ozone

generators should be located outside of any occupied drying or manicuring rooms.

The fragrance of cannabis can also be controlled through the use of carbon filters, and by sealing the drying and manicuring rooms. Set up a fan and carbon filter in the room to remove fragrances before venting the air out.

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Leaching soil will wash out any fertilizer salts that have accumulated in the medium.



Feeding and Flushing

Avoid the taste of chemical and organic fertilizers in harvested buds by leaching the growing medium with plain water or a clearing solution to remove any residues that have built up in the soil or plant foliage. Five to six days before harvest, leach the medium with clean tap water or reverse-osmosis (RO) water. Use a clearing solution such as Final Flush to remove any built-up nutrients in the soil.

Leaching heavily will wash out any fertilizer salts that have accumulated in the soil, allowing plants to use up the



Always irrigate in the morning so that the majority of water is used during the day.

balance of the nutrients in their system before harvest.

Some indoor gardeners fertilize with a liquid salt-based fertilizer until two or three days before harvest, and then use a clearing solution to remove fertilizer residues. They say this practice helps the plants retain weight in their flower buds. But it doesn't make the buds grow any faster, and fertilizer residues are still present in plant tissue. The tradeoff here

is that the fertilizer adds weight at the expense of medicinal quality.

Apply the leaching solution according to the directions on the packaging. Always let at least 10 percent of the solution (preferably more) drain out the bottom of containers. If you're using a recirculating hydroponic system, change the water after the first four to six days of application. Continue to top off the reservoir with clean, fresh water.

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1. Leaf tips and margins are burned.
2. Leaves are brittle at harvest.
3. Flower buds smell like chemicals.
4. Buds crackle when burning.
5. Buds taste like fertilizer.

Fungus Amongus?

Inspect your plants at night with a green or UVB light. Powdery mildew and insect feces and trails will be visible; they actually leap out at you, almost as if you were reading the eye chart in an optometrist's office. Carefully remove all signs of powdery mildew before it can enter the plant tissue. Spray fungus with an organic fungistat before removing affected plant parts to ensure that the disease does not contaminate the rest of the crop. This method works only when there is very little mildew.

Harvesting Leaves

Once the large leaves on a plant are fully formed, cannabinoid potency has generally peaked. Potency increases from the bottom of the plant upward. Old, large bottom leaves are not as cannabinoid-potent as younger, smaller leaves toward the top of the plant. The most



A green light or a UVB lamp makes pest trails and diseases very easy to see.

cannabinoid-potent part of the plant during much of the growth stage is found at the tips of branches, in the small leaves and well-formed shoots.

When harvesting, cut the entire leaf, including the stem (petiole), and toss it into a bag; if left on the plant, the petiole shrivels and may attract fungus. Paper bags are best for this purpose, since they breathe well and can be closed by folding over the top. Plastic bags do not breathe and often "sweat" inside, so the top of the bag must be left open.

Keep the paper bag in a closet or area with 40% to 60% humidity and a

temperature of 60°F to 70°F (15.6°C to 21.1°C). Reach into the bag once or twice a day and stir the leaves by hand. Leaves should be dry to the touch in five to seven days. Once dry, place small, resinous leaves in the freezer so that the resin glands will readily separate from foliage. Large leaves carry fewer cannabinoids and are most useful in making tinctures, food preparations and drinks. ✨

Adapted from The Cannabis Encyclopedia by Jorge Cervantes, \$50 (softcover), \$70 (hardcover). Find it at Amazon.com or by visiting Jorge's website, MarijuanaGrowing.com.



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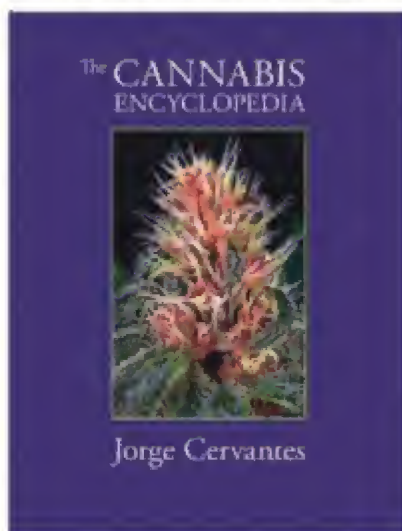
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BRUCE CAMPBELL

THE HIGH TIMES INTERVIEW

IF YOU WERE TO ASK THOUSANDS OF HORROR FANS TO VOTE FOR THEIR FAVORITE MOVIE CHARACTER OF ALL TIME, YOU'D PROBABLY EXPECT SOME FAMOUS FIEND LIKE DRACULA OR JASON VOORHEES TO END UP IN THE NUMBER-ONE SLOT. BUT WHEN *EMPIRE* MAGAZINE ASKED ITS READERS TO DO JUST THAT FOR ITS "666 GREATEST HORROR MOVIE CHARACTERS OF ALL TIME" WEB FEATURE, IT WASN'T FREDDY KRUEGER OR FRANKENSTEIN'S MONSTER THAT CAME OUT ON TOP—IT WAS NONE OTHER THAN MR. BOOMSTICK HIMSELF, ASH WILLIAMS, THE RELUCTANT ANTIHERO OF THE *EVIL DEAD* TRILOGY, AS PORTRAYED BY ACTOR BRUCE CAMPBELL.

DIRECTED BY CAMPBELL'S CHILDHOOD FRIEND SAM RAIMI, *THE EVIL DEAD* IS ABOUT A SMALL GROUP OF FRIENDS WHO DECIDE TO HOLIDAY AT A DESERTED CABIN IN THE WOODS, SMOKE A JOINT AND ACCIDENTALLY UNLEASH AN ANCIENT EVIL. WHILE THE FIRST FILM IS A CLASSIC IN ITS OWN RIGHT, IT WAS THE GROUNDBREAKING RE-QUEL *EVIL DEAD 2*—WITH ITS COMBINATION OF SLAPSTICK SHTICK AND EXTREME GORE—THAT SPAWNED AN ENTIRELY NEW SUBGENRE OF CULT CINEMA.

AS THE FILMS PROGRESS, ASH LOSES A HAND, A FEW GIRLFRIENDS AND A GOOD CHUNK OF HIS SANITY, BUT GAINS A CHAINSAW, A SHOTGUN (A.K.A. "BOOMSTICK") AND A COCKY NEW ATTITUDE. BY THE THIRD FILM, 1992'S MORE MAINSTREAM *ARMY OF DARKNESS*, HE'S TRANSFORMED FROM THE DORKY EVERYMAN OF THE FIRST FILM TO A POMPOUS, ONE-MAN ARMY AGAINST EVIL—BANGING OUT ONE-LINERS AS HE VANQUISHES A HARRYHAUSENESQUE HORDE OF MEDIEVAL DEADITES. IT'S THIS UNIQUE BLEND OF SMARMY SWAGGER, FARCICAL FEAR AND CAUSTIC CHARISMA THAT MADE ASH THE MOST HILARIOUS HORROR HERO IN HISTORY, AND MADE CAMPBELL THE UNDISPUTED KING OF CAMP.

SINCE THEN, CAMPBELL'S GONE ON TO STAR IN NUMEROUS TELEVISION SHOWS, INCLUDING *XENA: WARRIOR PRINCESS*, *HERCULES*, *THE ADVENTURES OF BRISCO COUNTY JR.*, AND THE CABLE HIT *BURN NOTICE*. HE'S HAD ROLES IN MAJOR FILMS LIKE *FARGO*, *THE HUDSUCKER PROXY* AND *ESCAPE FROM L.A.*, AMONG MANY OTHERS, AS WELL AS CAMEOS IN ALL THREE OF RAIMI'S *SPIDER-MAN* MOVIES. HE'S EVEN PLAYED AN ELDERLY ELVIS BATTLING AN UNDEAD MUMMY IN THE ACCLAIMED INDIE FILM *BUBBA HO-TEP*. NOW, OVER 20 YEARS AFTER THEIR LAST *EVIL DEAD* FILM, CAMPBELL HAS REUNITED WITH RAIMI TO BRING US THE LATEST INSTALLMENT IN THE FRANCHISE—REPRISING HIS SIGNATURE ROLE IN *ASH VS. EVIL DEAD*, A 10-EPIISODE "HORROR SITCOM" PREMIERING HALLOWEEN NIGHT ON STARZ.

I'D MET CAMPBELL ONCE BACK IN 2002, WHEN HE WAS ON TOUR PROMOTING HIS *NEW YORK TIMES* BEST-SELLING AUTOBIOGRAPHY *IF CHINS COULD KILL: CONFESSIONS OF A B MOVIE ACTOR*. A LONGTIME FAN, I SLIPPED HIM A BUSINESS CARD HOPING FOR AN INTERVIEW, BUT NOTHING EVER CAME OF IT—UNTIL THIS SUMMER, THAT IS, WHEN WE MET UP AT HOLLYWOOD'S NOTORIOUS SAFARI INN (THE HOTEL FROM *TRUE ROMANCE*) FOR A CHINWAG ABOUT ALL THINGS GORY, GREEN AND GROOVY.

Ash and his new sidekicks prepare to vanquish some Deadites in *Ash Vs. Evil Dead*.



What initially inspired you and Sam Raimi to make a horror comedy? That wasn't something that had really been done before.

In 1979, we were just out of high school and had to figure out what the hell we were going to do with our lives. We had only done comedies before in our independent little Super-8 movies, but we were concerned that if we actually got money from investors to make a movie, we should probably pick a genre that's more of a staple, that you can do cheap. Horror movies were always something you could do inexpensively—you didn't have to have big movie stars in them, or fancy cars or clothes or anything like that. *Texas Chainsaw Massacre* had nobody that you knew starring in it, and Jamie Lee Curtis wasn't really anybody when they did *Halloween*. So that's why we wound up with horror—but we were all massive fans of the Three Stooges, so we brought those comedic sensibilities into it.

What made you guys choose to do a cable series rather than another film?

Creative freedom—basically, we wanted to be left alone. We've not always had good experiences with motion-picture studios. With the first *Evil Dead*, there was no "director's cut": There's only one cut to that movie, because there was no studio—it was financed by doctors and dentists in Detroit. So it was unrestricted and unrated, and it was actually banned in a couple of countries.



They call him Bruce:
The inimitable Mr.
Campbell blazes up.

Evil Dead 2 also had no rating. But then, when we did *Army of Darkness*, we were contractually obligated to deliver an R-rated movie, so it was severely re-edited. We wanted to get back to those *Evil Dead 2* days, where we had enough money and freedom to do what we wanted. As someone in the arts, I want to be able to say anything I want to say, do whatever I want to do, and show whatever I want to show. Starz provided an atmosphere where there aren't any content restrictions, and that's the world that we want to play in. We had multiple suitors for this project, but they were the only ones that said, "You guys go do your thing and we'll back you." So I guess you could say the Starz have aligned on this project.

I read awhile back that you guys were planning an *Army of Darkness 2*. Does this show take the place of that? Where does it fit into the *Evil Dead* universe?

It's in Michigan, current day, so it's definitely not *Army of Darkness 2*. It's probably more similar to *Evil Dead 2*, but it has elements of all three movies. The original *Evil Dead* was made in the '70s—it's like a hokey melodrama. *Evil Dead 2* was made in the '80s and is a little more slapstick. *Army* was made in the '90s, and is more of a Ray Harryhausen adventure movie with carnage and mayhem. This series will have elements of all of them, but we're not giving away too much.

We'll never give up the option to make more movies, but Sam makes these big Hollywood movies now, and you don't want to make a really expensive *Evil Dead* movie—it just wouldn't feel right. Doing it as a TV show feels right so far. So I don't think this show is going to settle into any *particular* universe—we're putting the *entire* universe back in the audience's lap, and we hope they enjoy it.



Bruce enjoys a smoke by the pool.

How has Ash changed in the years since we've last seen him?

The last time we left Ash, he was trying to avoid responsibility, so nothing has really changed. [Laughs] He's middle-aged, crabby and even *less* qualified to do the job now. He'd rather just be hanging at the bar late at night telling chicks lies about how he lost his hand. Ash was never a conventional hero—he's even one step beyond a reluctant hero. This is not a guy who *wants* to be saving the world; it's not in his DNA. Greatness is thrust directly in his face at his own cause and his own peril. But now, perhaps older and wiser, he can be a leader to his team.

Oh, so you have sidekicks now?

Yeah... because it's a series, you have to expand Ash's world, expand the story, so he's developed this band of merry adventurers that

will go out and try to defeat the evil. There's Kelly and Pablo, who are former fellow employees at his Value Stop store, and that's our core team. Then Jill Marie Jones is going to play a Michigan police officer who gets sort of swept into this, and the great Lucy Lawless is coming in to play a very mysterious character named Ruby.

Technology has come a long way since *Army*—will there be more CGI incorporated into the new series, or are the effects still mostly traditional?

Not much of it is digital so far, so I think it's going to have a slightly old-school feel to it. It'll feel *real*. The movies have always had every kind of effect, and the series is going to be the same—from miniatures to stop-motion to digital to just old-school-monster creature makeup and blood pumping through tubes... we've actually pumped a

“Everyone talks about freedom... Well you know what? Part of that is the freedom to grow something out of the ground that God has given to the world.”

whole lot of blood. There will be no shortage of blood flow, I can attest personally.

Let's turn our attention from blood to bud. In the beginning of your autobiography, you wrote that when you were growing up, you were a bit of a fearless kid. How old were you when you first smoked pot?

My first experience was actually on film in the original *Evil Dead*. I smoked it for the very first time in the scene where the kids are passing a joint around. We thought, "Hey—they did it in *Easy Rider*," so we figured, "Let's do it!" And it just went from there.

Wow—that's awesome. And you still smoke?

Well, let me say this: I live in Oregon, and I've been a proud medical cardholder for probably about 10 years. I was very early in the program. And I have to say, it's very nice to be part of a state that treats you like an adult.

As a US citizen, I just want to be treated as an adult. Everyone talks about freedom: "I gotta be free, don't take my freedom away." Well, you know what? Part of that is the freedom to grow something out of the ground that God has given to the world.

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ASH VS EVIL DEAD



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Are you saying you grow your own plants?

Yeah—I'm allowed to have six adult plants. One time, the sheriff's helicopter came over my property and hovered directly above my crop, but then it turned and backed away and nobody ever came by, because I was a law-abiding citizen. That was a very refreshing moment, because in the '70s, you felt like a criminal if you smoked weed.

So you're definitely pro-legalization.

It's about fucking time! I'm glad to see that the laws are coming around, state by state. Eventually, people are going to get it that you can smoke an entire bushel of weed overnight—fistfuls of it—and you wake up in the morning and things will be a little fuzzy, and the cookies will be gone, but *that's it!* I mean, really—you *try* to OD on weed! Whereas a college kid could drink himself to death in two hours. To death! Alcohol is a poison ... and *that's legal!* You gotta be kidding me.

I'm so glad that people are finally getting off their high horse about this. I hate when they say, "He was on drugs." I don't even consider [marijuana] a drug. This isn't something created in a scientist's lab; this is something that grew from the earth. I have nothing in my medicine cabinet—no pharmaceuticals whatsoever. Marijuana is my only medicine. Whenever I've had a drug talk with my kids, I've said, "You see that little pill? You run from that little pill. See this thing that grows out of the ground? If you do that, I don't give a crap—I have no problem with that. If it has a needle, if



"Marijuana is unquestionably part of my creative process. It's a creative enhancement, because it opens up my thinking to more ridiculous or outrageous possibilities."

it's a strange liquid... you don't know where that came from. But if you drop a seed in the ground and this thing grows, you know *exactly* where that came from."

So it's nice to finally get things adjusted in a more adult, realistic way. They want to tax it? I say, "Go for it"—tax the hell out of it, make it a sin tax just like alcohol and cigarettes. Once states get that money flowing through their veins and the federal government gets some of that money, they'll never give it back.

Is there a specific type or strain you like?

Weed is like wine—some wines are sweet, some are earthy, some Scotch is like this, some vodka is like that ... it's the same with marijuana. Me, I'm a *sativa* guy, not an *indica* guy. I don't need to melt into the couch—I've got shit to do. People have this image that if you're a stoner, you're a slacker, right? Well, I work 12 hours a day, so I got your slacker right here! And then I can go back to work not hung over. But I don't do it while I'm at work, because it interferes with my concentration. I have to be able to understand the rhythms that are happening right

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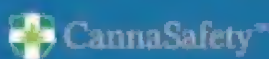
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in front of me; I can't have an artifice put on top of it. But yeah, *sativa*—I'm not a zombie-weed kind of guy.

Naturally—you spend your career fighting zombies, so you certainly wouldn't want to turn into one.

Exactly. I don't need to be a zombie—I've seen enough of them.

Did you and Raimi use cannabis for inspiration while working on the films?

I can't speak about anybody else, but for me marijuana is unquestionably part of the creative process. It's a creative enhancement, because it opens up my thinking to more ridiculous or outrageous possibilities. I'll give you an example: I directed a silly comedy a few years ago, *My Name Is Bruce*, that was a parody of the concept "What if Bruce Campbell got kidnapped by a fan?" And one night, I was trying to prep for this big sequence where all these things happen at the same time: The truck shows up and this happens and this pulls up and then the guy comes here, and Bruce is running around all over the place... and it seemed like it would take a million shots to execute. So after work, I sat down and rolled myself one, and by the end of that smoke, I had devised a way to do it faster and more efficiently. When I smoked, my thoughts became more uninhibited and unlimited, and I thought, "Why couldn't you just do the whole god-damned thing in one shot?" So we wound up doing it on a steady cam as a 360-degree shot done twice around—like a 720—and it actually



Ash has an axe to grind with the undead.

worked out perfectly. Now, I suppose I could've come up with that shot *not* being stoned, but I don't think I'd be that bold otherwise.

Finally, of Ash's many cool one-liners and catchphrases, "Groovy" is undeniably his most iconic. What made you choose that old counterculture colloquialism?

That was Sam's line. The idea was, he wanted Ash to say something so *not* cool that it *was* cool. So in 1986, that was the Reagan era—no one really said "groovy." And it still works with middle-aged Ash saying it in the show—now he's old enough that he actually *would* say "groovy."

Do you ever use it when you're not in character?

Yeah... I wind up texting it a lot. Someone will say, "I'll pick you up at three," and I could just text "OK" or whatever, but usually I'll just text "groovy." 🌿

For more on Bruce Campbell, go to bruce-campbell.com. Ash vs. Evil Dead premieres on Starz on October 31 at 9 p.m.



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Creating Cannabis Industry Standards

The urgent need for regulation. *By Jen Bernstein*



Standards would apply to every element of the cannabis industry.



Across-the-board pricing could be ideal.

The rise of any new industry is both a blessing and a curse. Having the ability to create the rules and regulations that help shape, define and lead new business is exciting and rewarding work. The curse, perhaps, can be seen as a challenge: How do we start legit cannabusinesses, let alone see the birth of an entirely new economy from scratch? Especially when cannabis is inherently misunderstood and comes stigmatized as a once underground, illegal and unregulated business?

As states continue to support full-on legalization of cannabis, the urgency to develop across-the-board standards for businesses operating in the cannabis space is glaringly apparent.

In fact, it's essential that we develop, and even over-emphasize marijuana rules and regulations to keep not only cannabusinesses safe, but consumers as well.

This past July, attorney generals, public officials, state representatives and business owners met in Hawaii to start work on a cannabis industry "Code of Responsible Practices." The idea hinged on setting standards, protocols and to help provide oversight for both new and developed weed businesses.

Not only to add legitimacy to our cause, but also to strengthen the value of our brands, cannabusinesses and overall industry, I'm offering this call to action as potential steps to take as the cannabis industry moves forward:

ELECT A GOVERNING BODY: A board comprised of growers, ganjapreneurs, consumers, lawyers and activists should be elected from a group of peers and act as a self-regulating and governing body.

LEARN TO SELF-POLICE: We don't have to look much further than the FDA to know that when big government agencies step in they don't represent the best interest or even have the manpower to enforce regulations. Part of having a self-regulating body would be an oversight committee to ensure best practices. Autonomy is a privilege. Let's learn to govern ourselves before mandates are dictated by someone else.

ENFORCE TRANSPARENT STANDARDS: Once the governing board is in place the real fun begins. A standard set of rules and regulations, ones that are easily understood—and therefore adhered to—is

essential to the cannabis industry as new states adapt to legalization or adopt a medical bill. These rules and regulations should apply to each facet of the marijuana industry and provide across-the-board standards.

IMPLEMENT A CANNABUSINESS CODE OF CONDUCT: No doubt the cannabis industry is already being carefully watched, so it's imperative to create good business practices from the beginning and continue to lead by example.

OBSERVE AND EXPAND: Look to existing industries and learn from their experience. Which are self-policing? Do we take a page out of the pharmaceutical, farming, or medical industry? Do we choose to follow Colorado's lead, furthering their progress by expanding and adapting their rules and regulations? Once set, these guidelines should be universally accepted and help newly legalized states transition seamlessly. Then go international.

UNIFY: Strength in numbers signifies professionalism. Uniformity helps all, especially as cannabusiness expands into other states. 🌿

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SUBJECT: **Going Hydro**

FROM: **Kyle G.**

🌱 Heya, Danko!

How's it goin', man? Just thought I would ask: Is there anything (like maybe a couple tips) that I could get from an experienced grower such as yourself on hydroponics?

Dear Kyle, Think of hydroponics as driving a racecar and growing in soil as cruising at normal speed: Everything must be absolutely dialed in for hydroponically grown plants to thrive, whereas soil is far more forgiving, particularly for someone just starting out.

The important factors for hydro growing are in your reservoir. Here, your nutrient solution must be monitored for temperature and plant-food levels as well as pH. It's also vital to oxygenate the solution constantly with an air pump and air stones to provide the roots with plenty of O₂.

There are several different styles of hydroponic growing, and I can't get into them all here. But stay tuned for our February 2016 “Hydro Report” for more detailed descriptions as well as reviews of a variety of new hydro products on the market.



This customized hydroponic system encourages enormous roots.

Danko Tip: Transplant clones into larger containers as soon as you see the roots emerge from the bottom of your chosen medium.



The greenhouse gardens of Elemental Wellness utilize the Screen of Green method.

SUBJECT: **Green Screen**

FROM **Kind Ray**

🌱 I keep hearing about “screen of green,” but I can’t really figure out what it means, and there’s lots of conflicting info online. What exactly is it, and how can I use it to increase my yields?

Dear Ray,
“Screen of green” (also known as “ScrOG” for short) is a trellis-based training method that maximizes harvests by utilizing all of the available canopy space. A screen made from string, nylon netting or metal chicken wire is secured horizontally above plant level. As your plants grow and reach the height of the trellis, you physically guide and tuck their individual shoots and branches into

the empty spaces in the screen. As your plants approach the flowering stage, most if not all of the holes will become filled with shoots that then develop into flowers.

Keep in mind that in order to use ScrOG properly, you’ll need to increase your vegetative time to fill out the screen. The extra few weeks of vegging will result in larger harvests, but you must factor that additional time into your growing schedule.

Many ScrOG growers remove the branches below the canopy in order to stimulate more growth up top. Because the buds fill out so closely together, air circulation is very important at the canopy level to avoid mold and stagnant growth. ScrOG-style growing is also a great way to tame stretchy, longer-flowering, *sativa*-dominant strains.

SUBJECT: **Side Lighting**

FROM **Panacea420**

🌱 I have a question about something I’ve been struggling with. What would be the better option: supplementing my closet grow with some side lighting, or removing the lower branches from my plants? I’m not a big fan of removing anything other than suckers and big fan leaves that suppress light penetration, so I would like to add LED bars on every side to give the lower branches more light. What are your thoughts?

Dear Panacea420,
I highly recommend adding side lighting over removing the lower branches. This will increase your yield significantly, with fairly low costs and only minimal heat added. If you choose not to add side lighting, then removing some of the lower branches will send more energy to the upper ones, but lighting the lower branches is the better option, in my opinion.

SUBJECT: **Flower Time**

FROM **Harry M.**

🌱 How long does it usually take to see colas form after the 12-hours-on/12-hours-off light cycle has begun?

Dear Harry,
You should see tiny flowers form within one to two weeks of switching your light cycle from vegetative to flowering. Some longer-flowering *sativas* can take up to three weeks or even a month to start forming flowers, but most of the hybrids available today will show buds earlier. Baby female flowers look like little puffballs with white hairs pointing up; males look like tiny clumps of bananas pointing down.

SUBJECT: **Strange Color**

FROM **Purple Hazed in Michigan**

🌱 I recently moved to a medical marijuana state (gotta love it!), and I’ve been trying like hell to become a producer of high-quality medicine. I recently harvested my second crop, and it was full of very sticky buds—however, there is still lots of room for improvement.



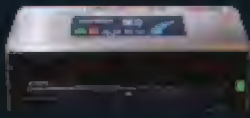
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Danko Tip: Never allow a male plant's flowers to fully mature near female plants, or it will seed your entire crop.

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Purple leaves and stems can indicate a phosphorus deficiency.

I think my biggest problem is purple: I have a recurring problem where first the leaf stems turn purple, and then purple stripes appear on the main stems. On one plant, all of the stems turned dark purple, so I threw it away. However, most of the plants have stripes here and there, grow well, and recently produced very smokable sticky buds.

So what the hell am I doing wrong? Am I feeding them too much? I regularly monitor my ppm and pH levels, keeping my EC at 1.6 during veg and my pH around 6.5. I grow in Pro-Mix and flush every three to four weeks. I use T-5s for the vegetative stage and grow in a basement.

Also, I just started a new grow (with different fresh seeds), and within two weeks I have signs of these purple stripes on my main stems again. Is this purple coloring a disease or fungus, or is this just from improper care?

Dear Hazed,
I believe what you have is a phosphorus deficiency. When plants lack phosphorus, purpling or reddening of the leaves and stems can occur. The signs usually begin on the lower leaves and branches and slowly work their way up the plant.

Bear in mind that some plants naturally turn red or purple due to their genetics, but if you keep having this problem with many different strains, it's likely not due to genes. Overwatering and cold temperatures can also exacerbate the problem, so make sure these aren't an issue before you try adding more nutes.

Phosphorus is the "P" in "NPK" (nitrogen, phosphorus, potassium), meaning it's a major nutrient needed by cannabis plants to thrive. Most fertilizers made for the flowering stage contain plenty of phosphorus, and sometimes growers will mistake a pH imbalance for a deficiency. However, it sounds like you check the pH often, so in your case I think it's truly a lack of phosphorus.

In order to treat this deficiency, you need to add nutrients heavy in phosphorus. Organic forms of these include worm castings, bat guano, bone and blood meal, and crab shells, among others. If you're using a bottled solution, be sure it's one in which the NPK ratio shows a high level of P. (Most "bloom" or flowering formulas meant for cannabis contain plenty of phosphorous.) You should see the problem clear up within a week or so, with new growth looking lush and green.

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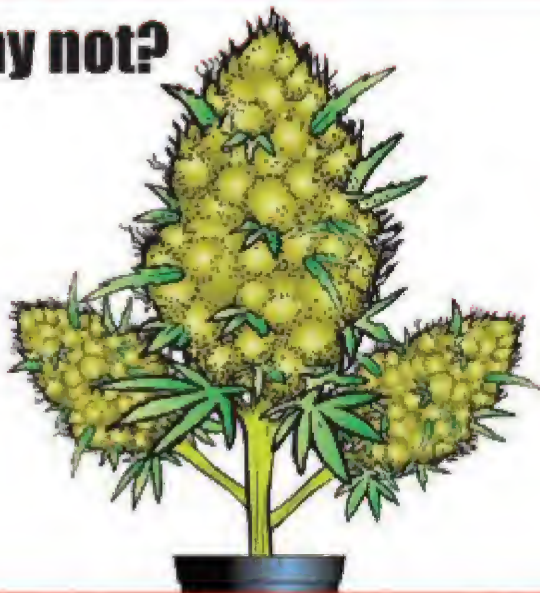
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SUBJECT: **Pruning Auto-flowers**

FROM: **Nick**

🌱 I'm growing auto-flowers due to limited time in the space I'm in. Are there any training methods that can be used to increase the quality of the yield? Or would you recommend letting them grow completely uninterrupted?

Dear Nick,

I do not recommend training or pruning with auto-flowering plants. Because their vegetative stage is so short, there's no benefit to cutting them, and the plants don't have enough time to recover from pruning before going into flowering, which means the final yield is negatively affected.

I also don't advise pruning regular non-auto-flowering plants in the two to three weeks before flowering is induced for this very reason. With autos, however, you have no choice in when they flower, since they'll do so at a certain height regardless of the photoperiod.

SUBJECT: **Compost Builder**

FROM: **Aleks K.**

🌱 I'm very interested in making my own compost and finding a good natural fertilizer for my first grow. I want to be as natural as possible. I was thinking of things like calcium from eggshells, potassium from bananas, etc. Am I on the right track? Should I try this? What do you think?

Dear Aleks,

Composting is a great way to reuse kitchen scraps and yard waste while also providing mild nutrients to your plants. You can purchase a composting bin or make your own compost pile very easily. The important thing to remember is the proper ratio of carbon to nitrogen (or browns to greens) for the composting process to occur. Most organic gardeners recommend about 30 to 1 of carbon to nitrogen (not by volume but by chemical composition) to get the pile to heat up and decay properly.

Examples of carbons (or browns) are dead leaves, straw and hay, while nitrogens (or greens) consist of grass clippings, food scraps (excluding meat and oily scraps), coffee grounds and seaweed (rinsed of salt). Build your pile by starting with a base of carbons, then add layers of nitrogens between the carbon layers.

Once built, your pile should start heating up, and you'll be amazed by the microbial activity. (You may even see steam rising from the pile.) Turn it every couple of days with a pitchfork to mix, and depending on how active your pile gets, you should have finished compost in a few months.

You can then use the cured compost as a mulch on top of your existing soil around the base of your plants, or you can brew it into compost tea using a simple 5-gallon bucket. To make the tea, steep the compost inside a bag that will allow the water to permeate it without letting the compost out of the bag. (Panty hose or a burlap sack works nicely for this.) Oxygenate your solution for 24 hours to activate and accelerate the growth of microbes, and then pour the tea directly on your plants or use it as a foliar feed. 🌱



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AS SEEN ON:   



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Heather Lee calls herself a “small-town girl.” Originally from Tulare County, California, “I started working in the cannabis industry when I was 18,” she says, “helping my boyfriend water, maintain and harvest his outdoor cannabis gardens.”

Over the past two years, the couple has established a new base of operations in Northern California: a 47-acre property boasting a 50-plant outdoor garden and several greenhouses that use the light-deprivation technique. Heather helps to oversee a host of cannabis businesses, including Nuthin but Nectar Farms, Nuthin but Nectar Extracts, and Willy’s Garden and Greenhouse Consultations. And she’s deeply involved in all aspects of the grow op.

“I do everything in the garden required for plant maintenance,” Heather says. “That includes

setup of drip-irrigation and watering systems, soil reconditioning and amending, transplanting and plant training, such as topping—my favorite task—top-dressing and hand-watering plants in different stages of growth, removing yellow or dead growth from inside the plant canopy, and pulling tarps in the greenhouses for light-dep purposes. Plus I’m always evaluating plant health, making sure they’re in tip-top shape!”

She admits that living out in the boonies can get boring at times, but “it’s also one of the best feelings to sit in nature and relax after a long day of working to improve the garden. Having a successful career in the cannabis industry will allow me to travel the world.”

Now 23, Heather adds: “I’m proud of the beautiful home and garden we’ve made for ourselves.”

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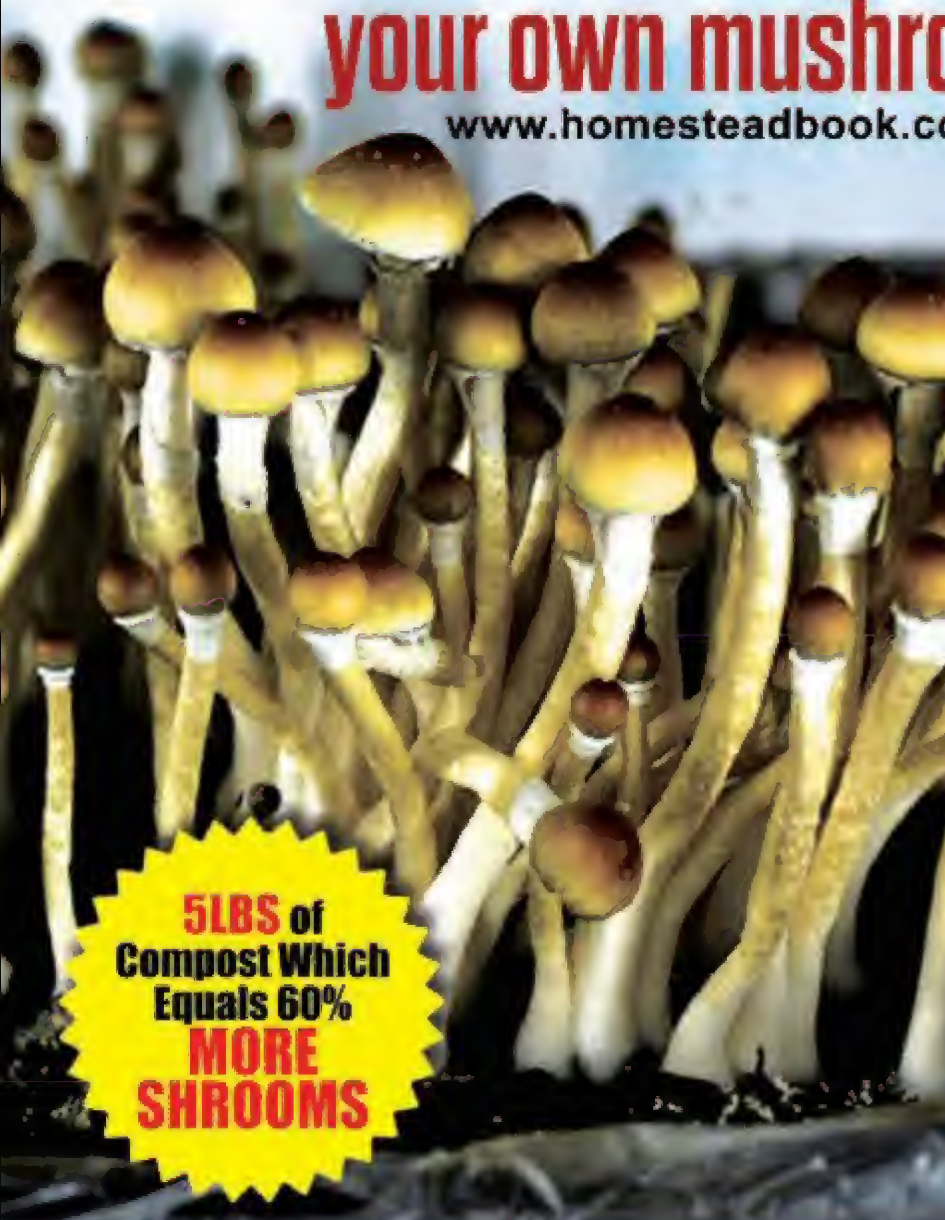
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Curious J

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 zures, anxiety
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 alter the
 effects of THC
 and protect against
 oxidative stress. Un-
 fortunately, "CBD pro-
 ducts" are still considered Sched-
 ule I drugs under the Con-
 trolled Substances Act, which
 means that it's against federal
 law to own them, much less
 sell them. Also, the potential
 for unregulated CBD prod-
 ucts to have contaminants
 like toxic heavy metals is a
 serious concern. If you've
 got legal access to high-CBD
 strains, that's probably still
 your best bet.



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 e your
 ed only
 or sleep
 or sex);
 d stay
 way from
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 t least an
 efore bed.
 pports a
 footbath
 ease into

My building buddies say that
 hemp concrete can kill bacteria.
 C'mon!

Bob the Uknowwhat

Hi Bob,
 Curb your skepticism! Experi-
 ments using the dreaded *E. coli*
 show that hemp materials
 really *do* kill the little bug-
 gers. But the effectiveness var-
 ies depending on the way the
 materials are prepared.

Do any other plants help you
 to sleep?

Poppy Somniferum

Hello Poppy,
 Aside from your namesake
 and HT's favorite plant,
 other plants that are known
 to aid sleep include hops,
 chamomile and valerian
 root. There's promising
 empirical support for lemon
 balm and kava-kava as well,
 and two kiwis or a hand-
 ful of tart cherries an hour
 before bedtime have been
 shown to work in research
 studies. But don't forget

You've mentioned pot-themed
 movies, songs and books. How
 about a favorite poem?

Charles Budelaire

Hi Charles,
 "The Great Smoke-Off" by
 Shel Silverstein may not be a
 great lesson in drug safety, but
 it always warms my heart. 🌿

Dr. Mitch Earleywine is a professor of psychology at SUNY Albany and the author of Understanding Marijuana and The Parents' Guide to Marijuana.

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Closed-Loop Extraction: The Advantages

How to extract safely and sanely. *By Harry Resin*

Solvent-processed cannabis extracts are here to stay—along with the dangers that go with making them. However, we can all breathe a little easier these days with the adoption of the closed-loop extraction system by most concentrate producers. This type of system has already been in use for decades in scientific labs and by the various industries that need essential oils for things like perfume, beauty products and food additives.

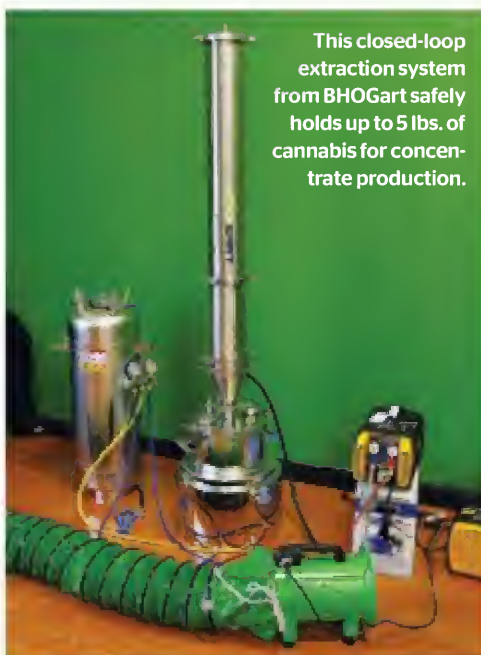
Indeed, closed-loop extraction is the norm in industries where compounds and essential oils play an important role in product manufacturing. In these industries, carefully crafted regulations and standards have been put in place to ensure that any lab performing such extractions is safe and in compliance with the industry's best practices.

This has started to become the norm in the cannabis industry as well. Today, closed-loop extraction is providing a safer (and much saner) way of creating extracts for the industry, offering an alternative to the riskier methods of open blasting. Companies like BHOgart in California and Terpp Extractors in Colorado have become industry leaders in this regard—and states like Colorado require a license in order to open an extraction lab.

The biggest benefit of closed-loop extraction is that it offers a method of working with flammable (and explosive) materials with equipment that has no openings for the solvents to escape or leak through. This is especially important when working with pressurized liquids that become gaseous in the absence of pressure. Closed-loop systems deliver two important benefits for extract artists: first, allowing them to reuse their chemical solvents, which means less waste and more money saved; and, second, significantly reducing the risk of explosion, because the system is extremely well-sealed.

How It Works

A closed-loop extraction system can seem daunting at first when you look at all of the components. Bear in mind that it's a



professional setup and requires a basic understanding of things like maintaining pressure and operating control valves. In general, a closed-loop system is made up of a large tank and attached tube, which is where the confined “blasting” occurs; a recovery tank; a recovery pump; a refrigerant pump; and a refrigerant scale to measure the weight of the recovery tank.

Finally, when making BHO, you will also need an oven and a pump, which are used in combination with each other, creating a vacuum oven. This “cleansing” system ensures that your product is purged of any residual solvents. However, for our purposes here, we will discuss only the extraction and not the purging process.

Here's a quick thumbnail sketch of how the system works: Ground-up cannabis material is packed into the extraction tube—but not too tightly, since that will decrease potential yields. (It is also recommended that you use fresh-frozen buds or just-harvested plants, as they contain the most terpenes.) A tank of pressurized solvent is then attached to the tube, using a series of lock-down clamps and valves to ensure that the solvent stays under pressure throughout the process.

As the liquid solvent passes over the compacted cannabis material, the

trichomes—or resin glands, which cover the buds and contain most of the plant's cannabinoids—are stripped away and deposited in the basin of the extractor. The residual solvents are collected separately in the recovery tank and can be stored for later use.

Even though the closed-loop technique is safer, it's still important to have tremendous respect for the system and the process, since any small faults (such as a blown gasket) can mean big trouble. For this reason, frequent and regular safety checks on your equipment are a must. It is also important to set up your blasting facility like a true lab, meaning proper ventilation and fire-safety controls. ✨

The Top Five Safety Tips for Making Extractions

Never open-blast! This process is extremely wasteful and dangerous to boot. Always use a closed-loop extraction system to recover and reuse your solvent.

Always have adequate ventilation. Never extract indoors unless you're in a lab that meets all state and local laws, including fire codes. Following these regulations creates a safe working environment for yourself and your employees.

Never smoke! Butane and propane are odorless, invisible gasses that are heavier than air. They sink to the ground, pool up and do not easily dissipate. You never know if flammable gas is still lingering around.

Don't skimp on safety precautions. Remove all ignition sources from your extraction area. Use a butane detector to help warn you of any leaks, as well as an explosion-proof fan with static-resistant ducting for additional ventilation.

Know your source. It's important to know where your solvent and cannabis material came from, since contaminants in either may be concentrated in the extract. Start with fresh, organic plant material whenever possible, and be sure to filter and distill your solvent in the extractor before running your material. This will help in removing most contaminants.



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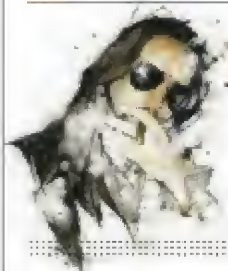
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Bruce Almighty

A photo shoot with *Evil Dead* star Bruce Campbell goes slightly awry.

When Starz contacted me about setting up a photo shoot with Bruce Campbell, I couldn't have been more stoked. At first we planned to shoot him in his Ash costume, smoking a joint and holding his trademark chainsaw and/or shotgun (a.k.a. "boomstick"). Rather than a standard prop, I had the idea to commission a life-size chainsaw or shotgun joint like the machine-gun blunt Greenwolf promoted at our recent NorCal Cup. I had our ad director Matt call Greenwolf, who in turn got in touch with Nature's Lab (who actually made the gun). They agreed and decided that tackling the chainsaw would be more fun.

The next day, however, I learned that the costume wouldn't be available—and without it, the chainsaw wouldn't make much sense. So instead, we decided on a shotgun blunt—or "choomstick," if you will—and to shoot Bruce retro-badass style at Burbank's historic Safari Inn. I informed Matt of the change of plan, booked my reservations, and in less than a week was off to LA. But upon landing, I got a disturbing text from Liz at Greenwolf:

"Hi Bobby—call me when you can—the chainsaw will be done by tonight or tomorrow morning."

"Chainsaw?!?" I wrote back. "I told Matt days ago that we wanted the shotgun, not the chainsaw!"

"Noooo!" she answered. "He never told me..."

Damn it, Matt!

"I promised them a shotgun... and now it's too late to make one."

After a few minutes, she replied: "I will have a shotgun for you."

"Seriously?" After working for days on a chainsaw, these guys were now going to make an entire shotgun out of weed in one night? Amazing. Now we'd have two killer props to impress Bruce and his peeps with.

The next morning, I texted the room number to everyone and



The
"choomstick"

then Jules from Greenwolf. Finally, the delivery guy from Nature's Lab arrived with a large cardboard box. We waited with bated breath as he opened the box and unwrapped an expertly crafted, realistic-looking brown-and-black shotgun blunt. There was just one small problem: It was only about a foot long.

I was in a state of utter disbelief. After jokingly re-enacting the Stonehenge scene

from *This Is Spinal Tap* countless times over the years with friends, it was now actually happening to me in real life.

"Are you kidding me?" I wailed. "How is Bruce Campbell supposed to look badass posing with *this*?"

Everyone just stared at me dumbfounded.

"Well, I guess we'll have to go with the chainsaw after all. Wait... where the hell is the chainsaw?"

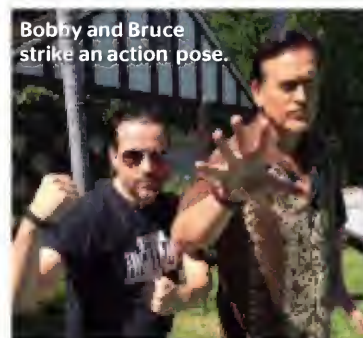
"It's not finished," the delivery guy informed me. "They stopped working on it to make this."

The irony was so thick you could cut it with a... well, a chainsaw.

When Mr. Campbell and the ladies from Starz arrived, I showed them the tiny choomstick and we all had a good laugh about it. We didn't shoot him with it, but at the end of our interview, I busted it out and explained our *Spinal Tap* moment, which served as a great punch line for the video.

With the interview in the bag and the photo shoot now under way, I breathed a sigh of relief—after all the stressing and prepping, everything was going to work out fine. Little did I realize that just a few minutes later, an even bigger snafu would threaten to shut down the entire shoot... ✨

To read what happened next and watch the interview go to hightimes.com/almostinfamous.



Bobby and Bruce
strike an action pose.

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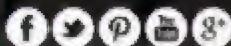
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Fed Up With the Feds

The conflicts between state and federal cannabis laws are increasingly unsustainable.

Allen St. Pierre is executive director of NORML. Visit norml.org.

As with the failed nationwide ban on alcohol during the Prohibition era, federal pot prohibition is coming to an end because of bottom-up policy reforms.

The conflicts between state and federal cannabis laws are becoming clearer all the time. For example, in July, the IRS and, later, the Ninth Circuit Court of Appeals ruled against the proprietors of the Vapor Room, a medical cannabis dispensary in San Francisco, for taking the standard deductions associated with running a business—inventory, rent, salaries, uniforms, etc.—on their federal tax forms, just as millions of other businesses do every year.

Why did the Vapor Room lose its case, despite having a valid operating license and being run in strict compliance with state and local laws, as per the Justice Department's decision to allow cannabis commerce in states that have legalized marijuana products?

Simple: The federal government, including the courts, maintains prohibition at the federal level; thus, there can be “no tax deductions for illegal, ongoing criminal enterprises involved in the production or sale of the drug.” But this shortsighted ruling will have an impact far beyond this single case, given that there are some 4,000 state-legal cannabis-related businesses currently operating in the United States.



The conflict between state and federal laws will become increasingly, and unsustainably, pronounced.

Or take Washington State, where marijuana has been legal for the last two years. A number of residents and businesses reside on the islands of beautiful Puget Sound and rely on an extensive ferry system to transport them and their goods to more populated areas. The state government, in its efforts to support cannabis commerce in some of the more remote areas of Washington, approved regulations that allow marijuana products, paraphernalia and cultivation equipment to travel unfettered on the state's ferry system.

Makes sense, right? Not so fast: In the United States, all public transportation involving waterways falls under the

jurisdiction of the US Coast Guard—the same federal service that racks up huge seizures of cannabis products on the oceans annually. When the regional head of the Coast Guard was asked by a Seattle newspaper reporter if his division would enforce the longstanding federal contraband laws against transporting marijuana on Puget Sound, he proceeded to duck the question: “We'll enforce federal law. But we don't seek to disrupt local commerce.”

One final example: A recent decision by the Colorado Supreme Court upheld the Dish Network's right to fire an employee—quadriplegic medical cannabis patient Brandon Coats—after he tested positive for pot use. Why? The majority ruling was predicated on the fact that cannabis remains illegal at the federal level. So, even in a state where adult recreational cannabis use is now legal, a company can still fire its workers—including a quadriplegic employee with an outstanding work record—simply because they use medical marijuana when they're *not* on the job.

States will continue to serve as the vanguard of cannabis-law reform—which means that the conflict between state and federal law will become increasingly, and unsustainably, pronounced. But make no mistake: At some point, Uncle Sam will finally cry “uncle!”, bringing to an end the misguided and destructive era of federal cannabis prohibition. ✨

FREEDOM FIGHTER

Pennsylvania Power

An activist attorney leads the way in the Keystone State.

Patrick K. Nightingale is a longtime advocate of marijuana-law reform—the result of the years he's spent as a criminal-defense attorney, representing cannabis consumers across Pennsylvania in both state and federal court.

Patrick understands better

than most the devastating impact that the failed War on Drugs has had on the lives of everyday Americans. He began his career as a prosecutor with the Allegheny County District Attorney's Office in 1996 and helped establish the Domestic Violence Prosecution Unit. These days, he serves as the executive director of Pittsburgh NORML.

Since re-establishing the



chapter in 2009, Patrick and the Pittsburgh NORML team have been actively engaged in efforts to decriminalize cannabis on the local level, and bring relief to those in need of medical marijuana, by working with state lawmakers on reform legislation. Patrick also serves as an advisor for the Pennsylvania Medical Cannabis Society, an organization that focuses on putting the

needs of the state's patients first.

“I'm incredibly proud that we've given voice to countless Pennsylvanians who desperately need medicinal cannabis and cannot speak for themselves,” he says.

On a personal note, Patrick is married to Theresa Nightingale, the regional coordinator of the Pittsburgh NORML Women's Alliance. (Theresa was also Miss *High Times* for March 2013!). They are currently raising three children.

By Kevin Mahmalji, NORML national outreach coordinator

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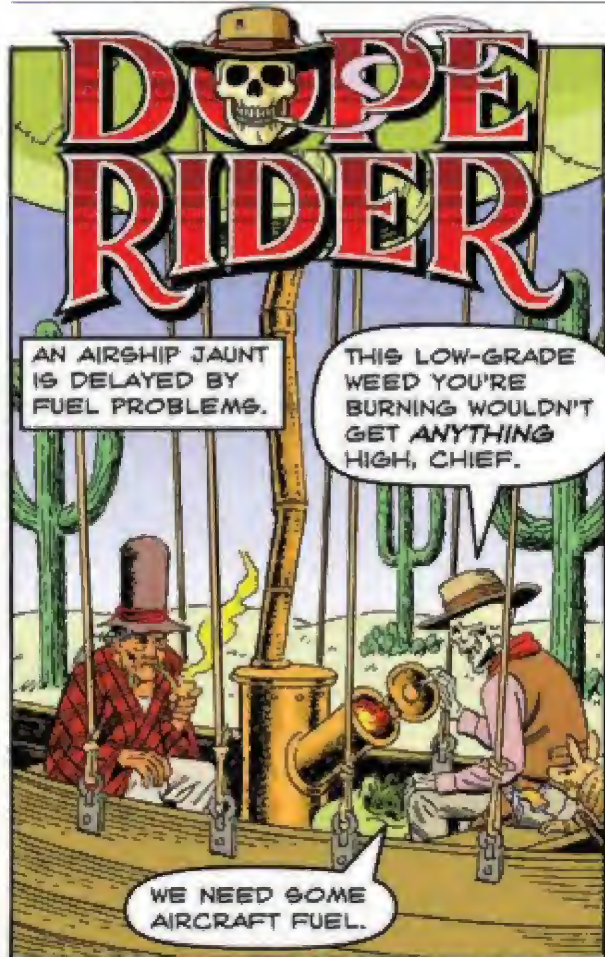
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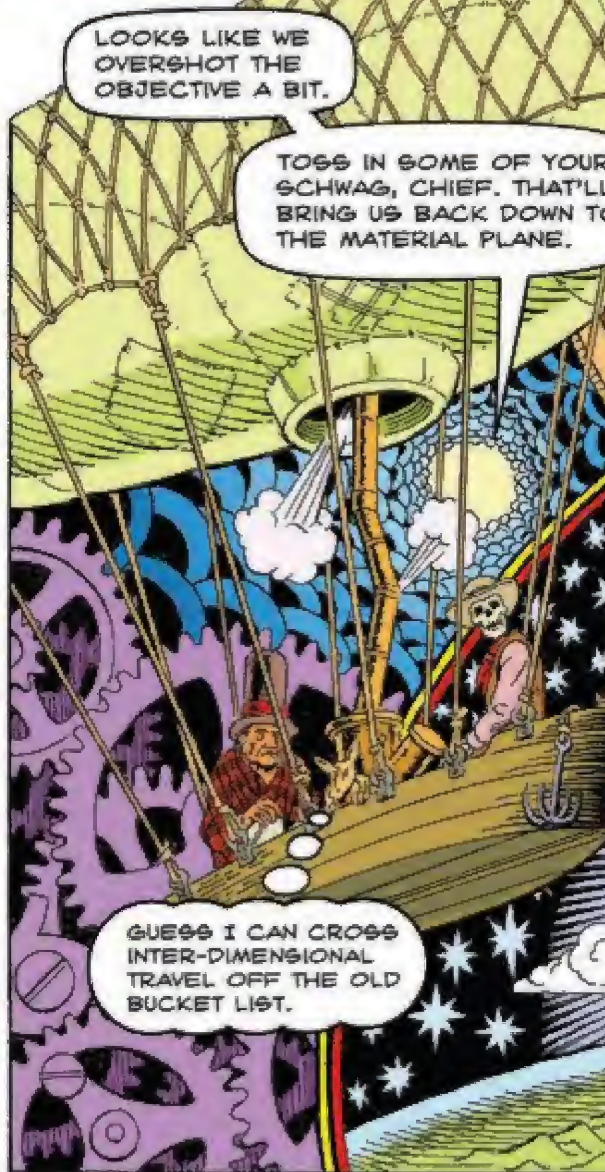


LEMME TOSS IN ONE OF THE NUGS I GOT FROM A PLANT ON THE A-BOMB TEST SITE AT YUCCA FLAT. THC OFF THE CHARTS.

BY PAUL KIRCHNER



יהוה



LOOKS LIKE WE OVERSHOT THE OBJECTIVE A BIT.

TOSS IN SOME OF YOUR SCHWAG, CHIEF. THAT'LL BRING US BACK DOWN TO THE MATERIAL PLANE.

GUESS I CAN CROSS INTER-DIMENSIONAL TRAVEL OFF THE OLD BUCKET LIST.



AH, BETTER. BY THE WAY, SORRY TO ALWAYS CALL YOU "CHIEF," BUT I DON'T KNOW YOUR REAL NAME.

CHIEF IS OKAY.

BUT WHAT'S YOUR INDIAN NAME?

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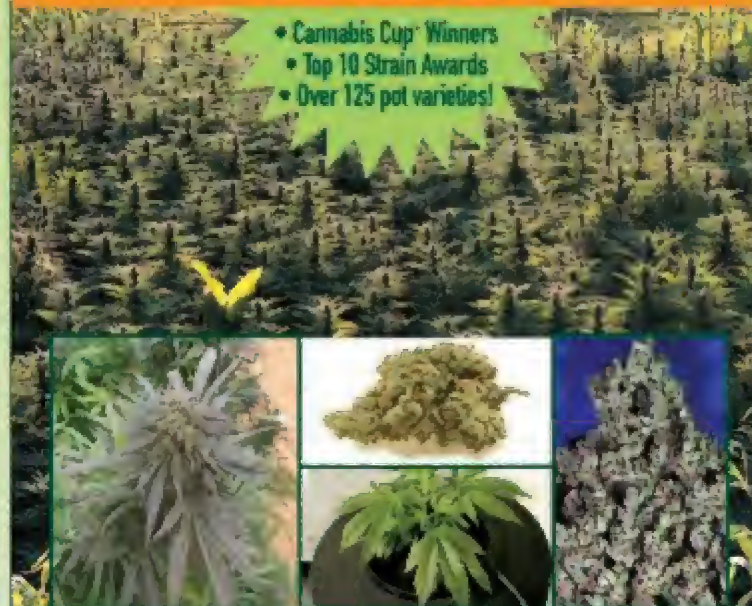
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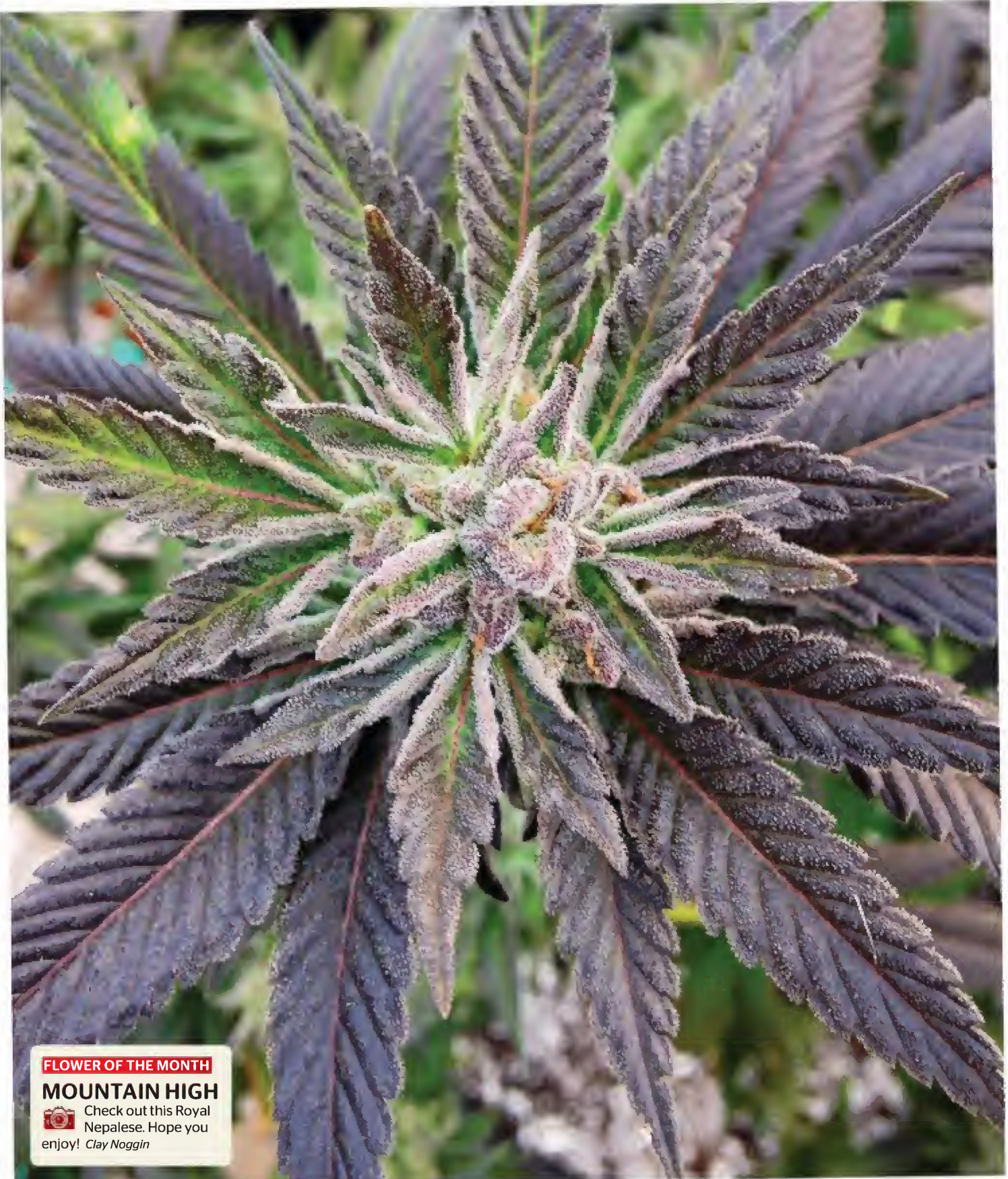
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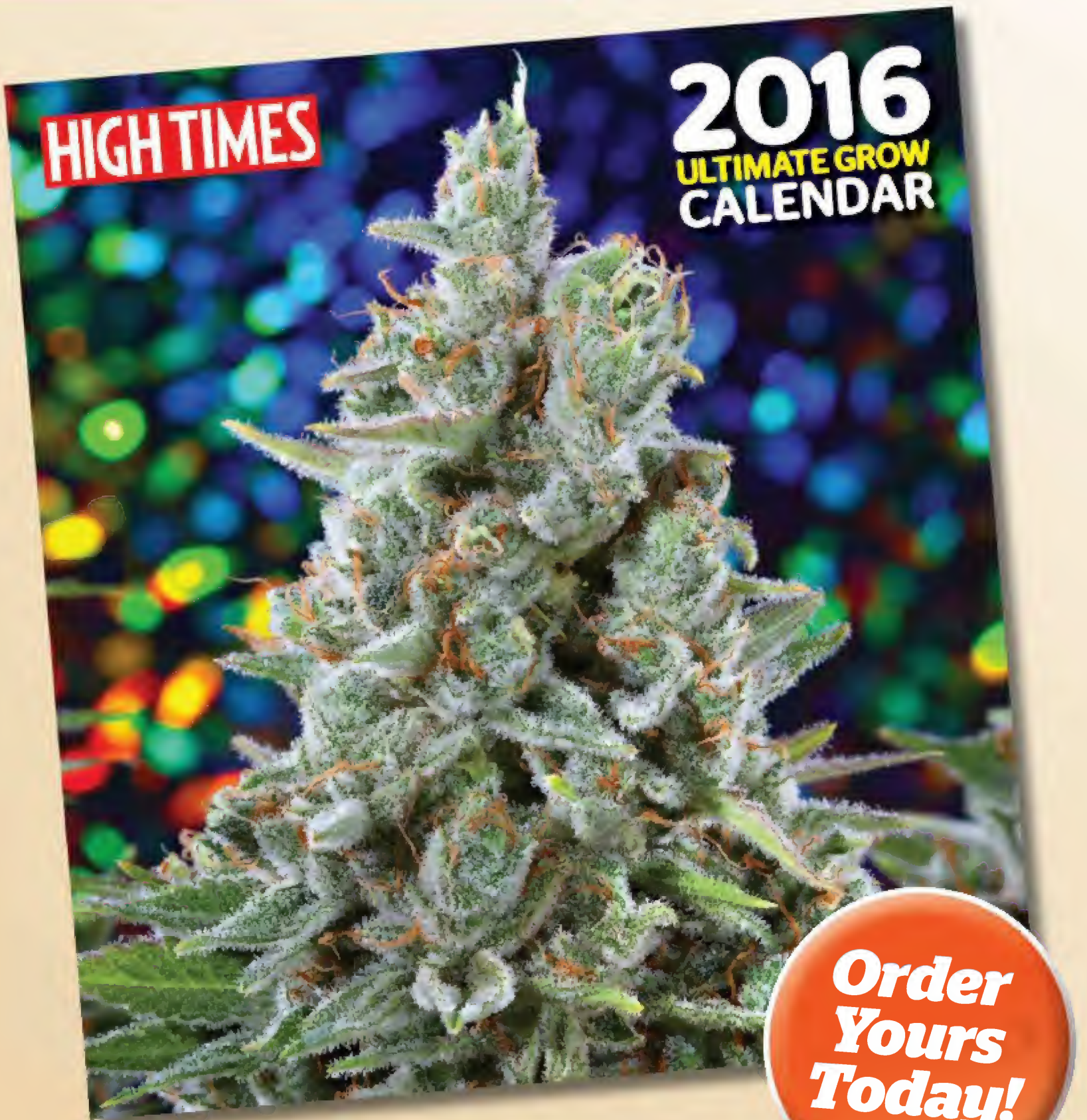
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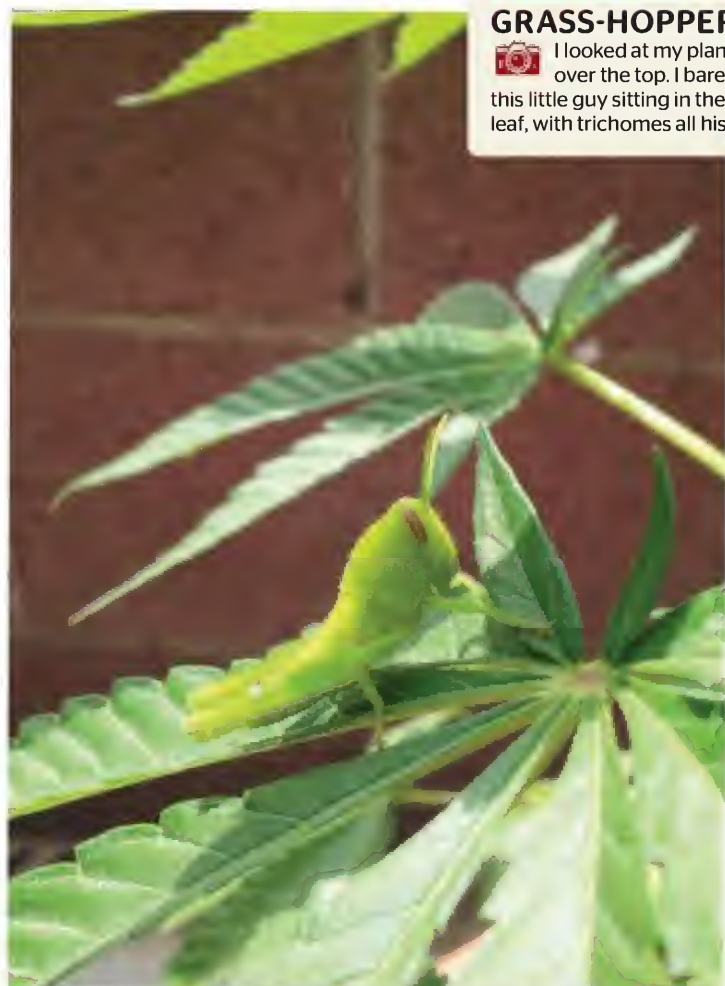
 We wanted to send you guys a pic last month, from here in the woods, 8000-feet up in the Rockies. I'm wearing my Jorge outfit. The girls are 5-ft. by 5-ft. already, so maybe 2-lbs plus per plant. So far so good! Gotta thank The Clone Store in Denver for the genetics. *Steven B.*



CRITTER OF THE MONTH


GRASS-HOPPER

 I looked at my plant, scanning over the top. I barely noticed this little guy sitting in the center of a leaf, with trichomes all his own. *wmeo*



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► Sex in the Growroom

It's important to remember that cannabis plants can be either male or female. But how do you determine a plant's sex early on? Cultivation editor-at-large Nico Escondido teaches you the basics of breeding and sexing young plants in the growroom.

► Shedding Light on LEDs

Jorge Cervantes illuminates LED (light-emitting diode) technology and its use in marijuana growing. Find out the real deal on electrical savings, heat reduction and whether LEDs are the new lighting alternative.

► The Women of OM

The members of a women's cannabis collective in California have been pooling their energy and talent to produce great pot crops, which end up as medicine in dispensaries as well as an award-winning line of edibles. Editor-in-chief Dan Skye takes a tour of the OM Collective.

► A Tale of Tent City

Arizona is home to one of the world's most infamous prisons, an open-air complex in Southwest Phoenix composed entirely of tents. A former "resident" of Tent City provides a firsthand look at life inside the brainchild of Maricopa County's notorious lawman, Sheriff Joe Arpaio.

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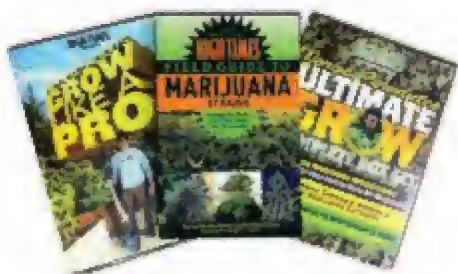
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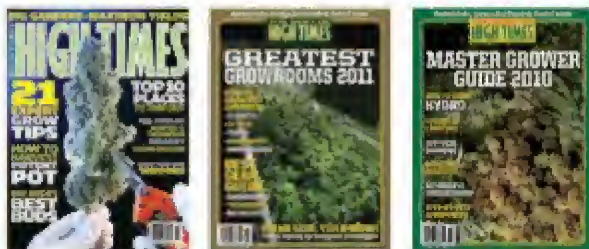
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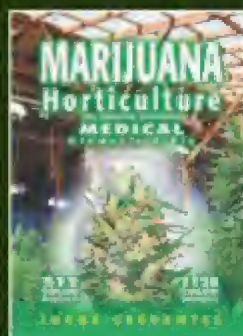


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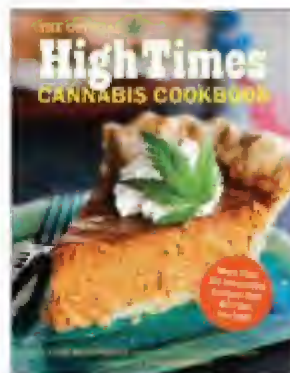


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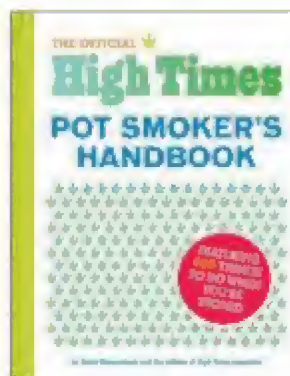
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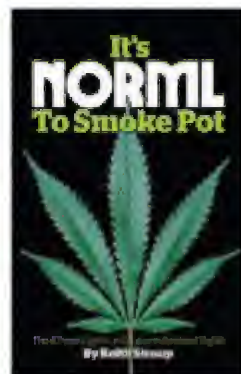
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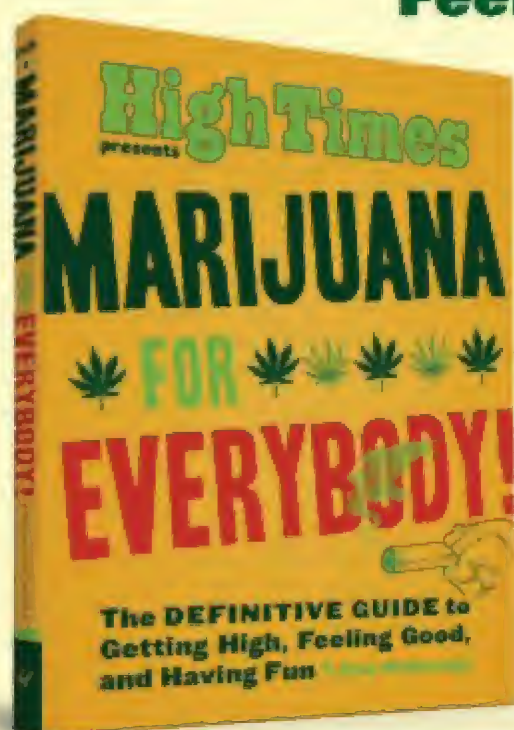
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Introducing the sovereign State of Accompong Signature Series Seeds , 3 high CBD strains grown in the mountains of Accompong by the Trelawny Town Maroons for 277 years

Call 1.855.425.3437 for pricing



Lambs Breath



Old School OG



Tajakastani

- Northern Lights X Skunk call
- OG Kush X NH21 \$225
- OG Kush X Thai \$80
- Orig. Haze x Skunk \$80
- Pig OG \$80
- Pig OG x Train Wreck \$80
- Pineapple call
- Pink Kush \$125
- Purple Crown \$100
- RMG Cherry Bomb \$90
- RMG -Triple Crown Collection - AAA \$300
- RockStar Kush \$55
- Silverback Gorilla \$80
- Sour Diesel x Skunk \$90
- Sour Diesel X Cinderella 99 \$70
- TAZ call
- Tropical Haze \$60
- Tuna Kush \$100
- Victory Auto Flowering Industrial Hemp \$33
- Zen Hash Plant (F) \$100

- Chemo UBC Cut Feminized \$80
- Col. K Kush \$100
- Early Appalachian \$80
- Early Purple Kush \$150
- Freezeland Cross \$50
- G13 Chem Dog \$100
- G13 Alpha Dawg \$80
- G13: Greenhouse 13 x Skunk \$80
- Golden Temple Kush \$100
- Grand Daddy Purple \$100
- Grand Daddy Purple X Cinderella 99 \$80
- Harlequin CBD \$100
- Harmony \$59
- Harmony X Thai \$70
- Hindu Kush \$50
- Hippie Crippler \$80
- Island Sweet Skunk X Skunk \$80
- JoJo Kush \$50



100% REEFERMAN GENETICS

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AI VACUUM OVENS - WINNERS' CHOICE -

HIGH TIMES



@AcrossIntl

AI's award winning vacuum ovens are the No.1 choice for cup champions*. They are your BEST choice for curing and converting botanical extracts. With deep vacuum level they can operate at temperatures which allow evaporation and degassing/purging to occur rapidly. This increases productivity and ensures the production of superior quality products with minimal processing time.

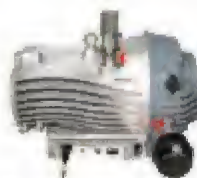
Check out our 3.2 and 7.5 cubic foot ovens with new **internal shelf heating technology**: each shelf in these ovens has its own heater, **in-shelf temperature sensor** and temperature controller; together with high quality thermal-conducted aluminum and our new low proportional controller technology, the result is perfect uniformity, accurate temperatures, super-fast heating rates, minimum heat loss/exterior temperature and ultra-low power consumption.

Our newly re-designed ELITE series vacuum ovens feature 5-sided jacket heating system that gives you **an industry leading 3% temperature uniformity across all shelves**, they also provide excellent temperature accuracy, exceptional build quality, and fast heating rates, covered by an industry best **2-year warranty**.

* Check our Instagram posts for a list of winners



Re-designed Elite 4.4 Cu Ft 20x20x20" vacuum ovens with 5-sided jacket heating, adjustable gas back-fill and 6 aluminum shelves



Edwards vacuum pumps and accessories



Welch diaphragm pumps and accessories



AccuTemp 1.9 Cu Ft 16x14x14" vacuum ovens with 4 sided heating, adjustable gas back-fill, 3rd gen LCD low temp controller and 5 aluminum pan shelves



7.5 Cu Ft

AccuTemp-75 22x24x25" vacuum ovens with 5 heated shelves, 5 in-shelf temperature sensors, 5 controllers and adjustable gas back-fill capability

VISIT US AT



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